Superfund Records Center
SITE: TOWN GARAGE/RADIO BEACON
BREAK: 8.3
OTHER: 443254

SDMS DocID 443254

FIVE-YEAR REVIEW REPORT

Third Five-Year Review Report
for
Town Garage/Radio Beacon Superfund Site
Londonderry, NH

March 2009

Prepared By:

United States Environmental Protection Agency
Region 1

Boston, Massachusetts

Approved by:

James T. Owens, III, Director
Office of Site Remediation and Restoration

Date: 3/5/09

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EXECUTIVE SUMMARY

The remedy selected to address contamination at the Town Garage / Radio Beacon Superfund Site (hereinafter referred to as the Site), located in the town of Londonderry, Rockingham County, New Hampshire was Monitored Natural Attenuation (MNA) of groundwater (deemed as the only medium requiring further remediation). This policy review is required since, upon completion, the remedial action will not leave hazardous substances, pollutants, or contaminants at the Site above levels that allow for unlimited use and unrestricted exposure.

The assessment of the Five-Year Review found that the remedy is functioning as designed. The remedy implemented at the Site currently protects human health and the environment because groundwater contaminant concentrations continue to decline and institutional controls are in place. However, in order for the remedy to be protective in the long-term, additional groundwater and surface water data collection efforts are needed.

LIST OF ABBREVIATIONS

ARARs	Applicable or Relevant and Appropriate Requirements
bgs	Below ground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
COCs	Contaminants of Concern
COPC	Contaminants of Potential Concern
EPA	United States Environmental Protection Agency
ELUR	Environmental Land Use Restriction
FS	Feasibility Study
FSP	Field Sampling Plan
MCLs	Maximum Contaminant Levels
MCLGs	Maximum Contaminant Level Goals
MDL	Method Detection Limit
MNA	Monitored Natural Attenuation
NPL	National Priorities List
NHDES	New Hampshire Department of Environmental Services
NHWS & PCC	New Hampshire Water Supply and Pollution Control Commission
NTCRA	Non-Time Critical Removal Action
OHM	Oil and/or Hazardous Material
OMM	Operations and Maintenance Manual
OU	Operable Unit
ppm	Parts per million
ppb	Parts per billion
POTW	Publicly Owned Treatment Works
PRP	Potentially Responsible Party
PQL	Practical Quantitation Limit
PSD	Performing Settling Defendant
QAPP	Quality Assurance Project Plan
RA	Remedial Action
RAO	Response Action Objectives
RAP	Remedial Action Plan
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
ROD	Record of Decision
RPM	Remedial Project Manager
RRDD	Regional Refuse Disposal District No.1
SVOCs	Semi-volatile organic compounds
VOCs	Volatile Organic Compounds

FIVE-YEAR REVIEW SUMMARY FORM

SITE IDENTIFICATION		
Site Name: Town Garage / Radio Beacon Superfund Site		
EPA CERCLIS ID: NHD981063860		
Region 1	**State:** NH	**City/County:** Londonderry

SITE STATUS			
NPL Status:	**X** Final	Deleted	Other (Specify)
Remediation Status (choose all that apply):	Under Construction	**X** Operating	Complete
Multiple OUs?	Yes	**X** No	**Construction Complete Date:** 9/30/1992
Has Site been put into reuse?	Yes	**X** No	

REVIEW STATUS				
Lead Agency:	**X** EPA	State	Tribe	Other Federal Agency
Authors Names: Byron Mah				
Authors' Titles/Affiliation: Remedial Project Manager, U.S. EPA, Region 1				
Review Period: 11/6/08 to 3/30/09				
Date(s) of Site Inspection: 12/18/2008				
Type of Review:				
X Post-SARA	Pre-SARA	NPL-Removal Only		
Non-NPL Remedial Action Site	NPL State/Tribe Lead	Regional Discretion		
Review Number:	1 (first)	2 (second)	**X 3 (third)**	Other (specify)_____
Triggering Action:				
		Actual RA Start at OU #_____		
Construction Completion		X Previous Five-Year Review Report		
Triggering Action date (from WasteLAN): 3/30/04				
Due Date (five years after triggering action date): 3/30/09				

Issues:

Surface water data (including background) is needed. Arsenic needs to be included in the sampling and analysis program as the MCL for arsenic has been lowered to 10 ug/L. A new contaminant (1,4-Dioxane) associated with 1,1,1 TCA needs to be included in the sampling / analysis program and evaluated for this Site. Ultimately the monitoring program needs to be expanded to address additional data needs.

Recommendations

In response to the above issues it will be necessary to expand the monitoring program. The single well which shows an exceedence of the interim groundwater cleanup levels is nearing the cleanup level and additional data will be required to prepare a final risk assessment. Therefore, a monitoring work plan and corresponding quality assurance project plan needs to be prepared and implemented.

Protectiveness Statement(s):

The remedy implemented at the Town Garage Radio Beacon Superfund Site currently protects human health and the environment because groundwater contaminant concentrations continue to decline and institutional controls are in place. However, in order for the remedy to be protective in the long-term, additional groundwater and surface water data collection efforts are needed.

Town Garage/Radio Beacon Superfund Site Third Five-Year Review Report

I. INTRODUCTION

The purpose of a Five-Year Review is to determine whether a remedy at a Superfund Site is protective of human health and the environment. The methods, findings and conclusions of reviews are documented in Five-Year Review Reports. In addition, Five-Year Review Reports identify issues found during the review, if any, and recommendations to address them.

The U.S. Environmental Protection Agency (EPA) New England is preparing this Five-Year Review pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). CERCLA Section 121 states:

> *If the President selects a remedial action that results in any hazardous substances, pollutants or contaminants remaining at the Site, the President shall review such remedial action no less often than each five years after the initiation of such remedial action to assure that human health and the environment are being protected by the remedial action being implemented. In addition, if upon such review it is the judgment of the President that action is appropriate at such Site in accordance with section 9604 [104] or 9606 [106], the President shall take or require such action. The President shall report to the Congress a list of facilities for which such review is required, the results of all such reviews, and any actions taken as a result of such reviews.*

EPA interpreted this requirement further in the NCP; 40 CFR §300.430(f)(4)(ii) states:

If a remedial action is selected that results in hazardous substances, pollutants, or contaminants remaining at the Site above levels that allow for unlimited use and unrestricted exposure, the lead agency shall review such action no less often than every five years after initiation of the selected remedial action.

The United States Environmental Protection Agency (EPA) Region 1 - New England has conducted the Third Five-Year Review of the remedial actions implemented at the Town Garage / Radio Beacon Superfund Site n Londonderry, NH. This review is a policy review because hazardous substances remain at the Site, which do not allow unlimited use and unrestricted exposure. The review was conducted from November 2008 through March, 2009. The trigger for this review is the signature date of the previous Five-Year Review, March 31, 2004. This report documents the results of the review.

II. SITE CHRONOLOGY

The Chronology of Site Events (Table A) for the Town Garage/Radio Beacon Superfund Site is listed below:

Table A

Date	Event
1984	Discovery of the problem
1988 -1989	Provision of public water
31-Mar-89	Final listing on NPL
30-Sep-92	RI/FS completed
30-Sep-92	ROD signature
30-Sep-96	EPA issued Unilateral Order to Town of Londonderry to perform groundwater monitoring
Aug-97	Issuance of Groundwater Management Permit to Town of Londonderry
31-Mar-99	First Five-Year Review report
9-Oct-02	Renewal of Groundwater Management Permit to Town of Londonderry
30-Mar-04	Second Five-Year Review report
26-Nov-07	Renewal of Groundwater Management Permit to Town of Londonderry
18-Dec-08	Site Inspection

III. BACKGROUND

A. Physical Characteristics

The Town Garage/Radio Beacon Superfund Site is located north of Pillsbury Road near the intersection of Pillsbury and High Range Roads in Londonderry, New Hampshire. Much of the area is wooded with a wetland located between residential developments.

B. Land and Resource Use

The Site encompasses two residential developments: thirteen homes on Saddleback Road and twenty-three homes on Holton Circle; a wetland area; and the Londonderry town garage area located on High Range Road. All homes in the Saddleback Road subdivision are attached to a public water supply. Several homes in the Holton Circle subdivision remain on private wells since they have a long history of remaining unaffected by the groundwater contamination. The groundwater contamination does not extend into Holton Circle. The Groundwater Management Permit only includes properties on Saddleback Road and High Range Road (please see Figure 1).

C. History of Contamination

The Site was discovered in 1984 following a request to the State by residents of the Holton Circle subdivision to sample their bedrock wells. Sampling results from the New Hampshire Department of Environmental Services (NHDES), formally known as the New Hampshire Water Supply and Pollution Control Commission (NHWS & PCC), revealed the presence of volatile organic compounds (VOCs) in several of the residential drinking water wells and the nearby town garage well. The Site was added to the National Priorities List (NPL) on March 31,1989.

D. Basis for Taking Action

The major contaminants detected in groundwater included 1,1 dichloroethene (1,1-DCE); 1,1 dichloroethane (1,1-DCA); and 1,1,1 trichloroethane (1,1,1-TCA) at levels above federal and state primary drinking water standards. Four non-Site related metals: barium, beryllium, chromium and antimony were also discovered at concentrations in excess of drinking water standards and chemical specific ARARs.

IV. REMEDIAL ACTIONS

A. Remedy Selection

The remedial action objectives identified in the Record of Decision (ROD) issued September 30, 1992, are:

- Prevent ingestion of water which contains compounds in concentrations that exceed federal and state enforceable drinking water standards; and

- Prevent ingestion of water containing compounds which have no enforceable federal or state drinking water standards but which pose an unacceptable health risk.

The remedy included four main components: 1. restoration of contaminated groundwater in the overburden and bedrock aquifers by natural attenuation; 2. institutional controls; 3. groundwater monitoring; and 4. an alternate water supply contingency. With regard to metals, the ROD concluded that elevated concentrations were probably due to sampling artifacts (sampling related issues) and not representative of actual conditions. Re-sampling of groundwater by an improved method (low-flow) was required to verify actual conditions.

B. Remedy Implementation

The selected remedy of MNA (Record of Decision, 9/30/92) was being performed by the New Hampshire Department of Environmental Services (NHDES) until EPA issued an Unilateral Administrative Order to the Town of Londonderry on September 30, 1996.

The Town was the only potentially-responsible party identified for the Site. The Town implemented required institutional controls on the town property and hired a consultant to perform continued groundwater monitoring. In addition in 1997 NHDES issued a Groundwater Management Permit (institutional control) to Town of Londonderry that restricted use of groundwater at the Site.

C. System Operation/Operation and Maintenance (O&M)

System Operation / Operation and Maintenance are performed by the Town of Londonderry. Currently, the remedy remains MNA and the groundwater is sampled once a year in the late fall. Groundwater monitoring data indicates that the cleanup of the groundwater is progressing as anticipated. The ROD cleanup goals for groundwater,

developed in response to the remedial action objectives, along with the maximum levels of contaminants found in monitoring wells since the last Five-Year Review are presented in Table B, below. See Figure 1 for the location of the monitoring wells. Barium, beryllium, chromium and antimony were re-sampled using the low-flow sampling method. Results confirmed that actual concentrations did not exceed drinking water standards. Three rounds of subsequent monitoring were performed which verified this result. Metals were removed from the monitoring program.

Table B
ROD Groundwater Cleanup Goals and Results

Contaminant	Target Level (µg/l)	2003 Maximum/ Well No.	2008 Maximum/ Well No.
1,1,1-Trichloroethane	200	19 µg/l/MW-2D-6	ND /MW-2R
1,1-Dichloroethene	7	28 µg/l/MW-2D-6	9 µg/l/MW-2R
1,1-Dichloroethane	81	57 µg/l/MW-2D-6	17 µg/l/MW-2R

Maintenance primarily involves ensuring the integrity of the monitoring network so that representative samples can be obtained. A written agreement between Stonemark Investments, Inc., the developer of Saddleback Road and the Town of Londonderry, dated December 11, 1996, includes provisions for long-term access to, and maintenance of, monitoring wells. During the construction of the Saddleback Road subdivision, MW-2S was destroyed and MW-2D damaged, but Stonemark Investments, Inc. implemented the necessary repairs consistent with the above agreement.

Operation and Maintenance costs are unknown as they are paid for by the Town of Londonderry.

V. PROGRESS SINCE THE LAST FIVE-YEAR REVIEW

The last Five-Year Review contained four recommendations for ensuring the protectiveness of the remedy. The status of their implementation is presented below:

(1) *The current annual groundwater monitoring program should continue*

The annual groundwater program has continued and is documented in annual reports provided to EPA and NHDES. A replacement well (MW-2R) was installed to replace MW-2D-6 which as been decommissioned.

(2) *Surface water in the wetland area directly downgradient of the plume should be sampled once drinking water standards are achieved to ensure compliance with CWA 304(a)*

The concentration of 1,1-Dichloroethene in MW-2R had not reached 7 ug/l over the past five years and no surface water sampling was performed per the recommendation of the Five-Year Review Report.

(3) *Maintain the institutional controls through The Groundwater Management Permit (GMP). The GMP should be maintained to ensure that potable wells are not installed within the plume area*

The permit duration is five years and was recently renewed in November 2007. No evidence was found of any new drinking water wells having been installed. See Figure 1 for location of institutional controls established by Groundwater Management Permit for the Site.

Protectiveness Statement: The previous five year review indicated that because the remedial actions being implemented throughout the Town Garage/Radio Beacon Superfund Site were protective, the site was protective of human health and the environment.

VI. FIVE-YEAR REVIEW PROCESS

A. Administrative Components

The Town Garage/Radio Beacon Superfund Site Five-Year Review was conducted by Byron Mah, the EPA Remedial Project Manager, Thomas Andrews, the NHDES Remedial Project Manager, Chau Vu, EPA Human Health Risk Assessor, Cornell Rosiu, Ecological Risk Assessor, and Darryl Luce, Hydro-Geologist.

B. Community Involvement

A public notice was issued on December 11, 2008 in the Londonderry Times indicating that EPA had started the Five-Year Review process (copy attached in appendix). Copies of the Five-Year Review are being placed in the information repositories, including the Leach Public Library in Londonderry, New Hampshire. A copy is being provided to the Town Manager.

C. Document Review

This Five-Year Review consisted of a review of relevant documents including Applicable or Relevant and Appropriate Requirements (ARARs), the Groundwater Management Permit, and monitoring data provided by the town of Londonderry's consultant. The sampling documents reviewed are presented in the appendices.

D. Data Review

For the Site, six groundwater Chemicals of Concern were identified and had cleanup levels set. In the latest groundwater sampling round (November, 2008), only one well was sampled. Only one Chemical of Concern, 1,1-dichloroethene, was found in the one well, MW-2R, above its cleanup level at 7ug/L. Historical trends for several monitoring wells are presented in Appendix B, which includes Tables 1 and 2 as well as Figures 1 and 2. Other wells that were previously in the monitoring program are no longer sampled as they consistently yielded "Non-detects" for all Site contaminants analyzed. Table I - Interim Groundwater Cleanup Levels from the 1992 Record of Decision is included in the appendices.

E. Site Inspection

Representatives of EPA and NHDES, participated in the Site inspection held on December 18, 2008. During the inspection, the residential development, town garage area and the groundwater monitoring wells were observed. No potable wells were observed. The Site Inspection checklist can be found in Appendix A.

F. Interviews

Interviews were conducted with the Dave Caron, Town Manager – Town of Londonderry as well as with Scott Nerney, Project Manager, Sanborn Head Associates, consultant for the Town. No concerns were raised.

VII. TECHNICAL ASSESSMENT

A. Is the remedy functioning as intended by the decision documents?

Yes. The ROD estimated that the groundwater would achieve cleanup levels through natural attenuation within seven to twenty-five years. Sixteen years have passed and all but one Chemical of Concern in all but one fracture zone from one bedrock well has achieved cleanup levels. Moreover, a downward trend is evident in that fracture zone. Therefore, it appears that the selected groundwater remedy is functioning as intended.

B. Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of remedy selection still valid?

No. There have been significant changes in land use on the Site. However, the residential development which has occurred on the Site is served by public water and no additional drinking water wells have been installed. Under the 1986 cancer guidelines (U.S. EPA, 1986), 1,1-DCE (a Chemical of Concern for the Site) was assigned to Group C, a possible human carcinogen. However, under the draft revised guidelines for carcinogenic risk assessment (U.S. EPA, 1999), EPA has concluded that the data for 1,1-DCE are *inadequate* for an assessment of human carcinogenic potential by the oral route. Therefore, a quantitative estimate of carcinogenic risk from oral exposure cannot be calculated. The federal and state drinking water standards remain at 7 µg/l, however. No other changes have occurred in toxicity assumptions for Site-related Chemicals of Concern. The following applicable or relevant and appropriate requirements (ARARs) were reviewed for changes that could affect protectiveness:

Safe Drinking Water Act (40 CFR Part 141) Resource Conservation and Recovery Act (40 CFR 264) Clean Water Act (40 CFR 122)New Hampshire Code of Administrative Rules Env-Or 600 and Env-Or 700.

Arsenic MCL

There is a change for arsenic MCL. The 1992 ROD listed 50 µg/L as the MCL for arsenic. However, the arsenic MCL has been decreased to 10 µg/L as of January 2006. Since groundwater monitoring data available for review (from 1990 to 2008) does not include arsenic in the analysis, it is unknown whether arsenic in groundwater at the Site would be safe for ingestion or not, however there is no use of the groundwater within the groundwater management zone.

New exposure pathway: vapor intrusion

The vapor intrusion pathway is another new exposure pathway that was not evaluated in the 1999 ROD and was not considered in previous reviews. Therefore, it is also necessary to evaluate the vapor intrusion pathway and to consider whether additional actions need to be taken or not. Since groundwater monitoring data are only available for 1,1-DCA, 1,1-DCE, and 1,1,1-TCA for this review, the monitoring results for these compounds only will be used in this evaluation.

Groundwater monitoring results of these contaminants from the last few years were used for screening the vapor intrusion pathway. The monitoring data are screened against the target groundwater concentrations corresponding to target indoor air concentrations resulting in target non-cancer hazard index of 1 since all three of these compounds are non-carcinogens. These groundwater screening values are 2,200 µg/L, 190 µg/L, and 3,100 µg/L for 1,1-DCA, 1,1-DCE, and 1,1,1-TCA, respectively. Groundwater monitoring data since 1996, show either no detections or detections at levels below these screening values. Therefore, based on the most recent data, the groundwater data indicate that the vapor intrusion pathway does not pose an unacceptable risk to human health. Should future groundwater monitoring show elevated detections, this pathway would need additional evaluation.

New pollutant related to 1,1,1-TCA

1,4-dioxane is a compound known to be used both as a solvent and as a stabilizer for other chlorinated solvents, especially 1,1,1-TCA, in industrial degreasing operations. The ability to detect low concentrations of 1,4-dioxane has only recently become available.

Groundwater monitoring data show that after 1996, 1,1,1-TCA was either detected at levels below the MCL or not detected and that there is a downward trend of detected concentrations. Since groundwater monitoring data available for review (from 1990 to 2008) does not include 1,4-dioxane in the analysis, it is unknown whether 1,4-dioxane exists in groundwater at the Site or not and if so, whether the levels would be safe for ingestion or not. The groundwater, however, is not being used as a result of institutional controls by deed as well as a groundwater management permit which prohibits the use of the Site groundwater.

Surface Water and Ecological Risk

At the time of the Remedial Investigation and the Record of Decision (ROD) in 1992, there were exceedences of the New Hampshire Ambient Water Quality Criteria identified, however, it was not determined that these exceedences were Site related. No surface water quality data has been collected since the time of the ROD. Therefore, surface water sampling should be included in the monitoring plan, especially in the ponded areas and areas considered background.

C. Has any other information come to light that could call into question the protectiveness of the remedy?

No. No other information has come to light that would call into question the short term protectiveness of the remedy as groundwater within the Groundwater Management Zone is not being used.

Technical Assessment Summary

The following conclusions are provided:

- The remedy is performing as expected and there are no indications of a potential failure.
- Residential development has occurred on the Site. However, public water is provided.
- A Groundwater Management Permit remains in effect to ensure that no new drinking water wells are installed within the Site boundaries. See Figure 1.
- No new contaminants, sources or exposure pathways were discovered during this Five-Year Review, however, arsenic and 1,4-dioxane need to be added to the monitoring program to address long term protectiveness issues.
- The groundwater flow patterns are consistent with the expectations at the time of the decision documents.
- It is recommended that surface water be included in the sampling program and samples should especially be taken from the "ponded drainage water area".

VIII. ISSUES

Surface water data (including background) is needed. Arsenic needs to be included in the sampling and analysis program as the MCL for arsenic has been lowered to 10 ug/L. A new contaminant (1,4 Dioxane) associated with 1,1,1 TCA needs to be included in the sampling / analysis program and evaluated for this Site.

Table C - Issues

Issue	Currently Affects Protectiveness Y/N	Affects Future Protectiveness Y/N
Monitoring Program Needs to be expanded to address additional data needs: surface water, arsenic, 1,4-dioxane	N	Y

IX. RECOMMENDATIONS AND FOLLOW-UP ACTIONS

In response to the above issues it will be necessary to expand the monitoring program. The single well which shows an exceedence of the interim groundwater cleanup levels is nearing the cleanup level and additional data will be required to prepare a final risk assessment. Therefore, a monitoring work plan and corresponding quality assurance project plan needs to be prepared and implemented.

Table D – Recommendations

Recommendations/ Follow-up Actions	Party Responsible	Oversight Agency	Milestone Date	Affects Protectiveness (Y/N)	
				Current	Future
Update Monitoring Work Plan and Quality Assurance Project Plan	Town of Londonderry	EPA/NHDES	July 31, 2009	N	Y

X. PROTECTIVENESS STATEMENT

The remedy implemented at the Town Garage Radio Beacon Superfund Site currently protects human health and the environment because groundwater contaminant concentrations continue to decline and institutional controls are in place. However, in order for the remedy to be protective in the long-term, additional groundwater and surface water data collection efforts are needed.

XI. NEXT REVIEW

This Site requires policy reviews every five years since upon completion of the remedial action no hazardous substances will remain above levels that allow for unlimited use and unrestricted exposure, but five or more years are required to reach that point. The next review will be issued either on or prior to five years from the date of signature of this report.

APPENDIX A

Site Inspection Checklist

I. SITE INFORMATION	
Site Name: Town Garage / Radio Beacon	**Date of Inspection:** 12/18/08
Location and Region: Londonderry, NH	**EPA ID:** NHD981063860
Agency, office, or company leading the five-year review: EPA-Region I	Weather/temperature: 12/18/08 36 Degrees F, Clear
Remedy Includes (Check all that apply)	
☐ Landfill cover/containment ☐ Access Controls ☒ Institutional Controls ☐ Groundwater pump and treatment ☐ Surface water collection and treatment	☒ Monitored Natural Attenuation ☐ Groundwater containment ☐ Vertical Barrier Walls ☐ Other
Attachments: ☐ Inspection team roster	☒ Site Map

II. INTERVIEWS (Check all that apply)

1. **O&M Site Manager**: Scott Nearney — Project Engineer, Sanborn Head Associates, Consultant for PRP — 2/5/2009

Interviewed Scott Nearney ☐ At office ☒ By phone Tel. No. (603) 229-1900
Problems, suggestions; ☐ Report attached

2. **O&M Site staff** :n/a

3. **Local regulatory authorities and response agencies** (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply
Agency Town of Londonderry
Contact David Caron Town Manager 603-432-1100
Problems; suggestions; ☐ Report attached No Problems.

Appendix A: Five-Year Review Site Inspection Checklist

III. ON-SITE DOCUMENTS & RECORDS VERIFIED (Check all that apply)			
1. **O&M Documents**			
☐ O&M Manual	☐ Readily Available	☐ Up to Date	☒ N/A
☐ As-built drawings	☐ Readily Available	☐ Up to Date	☒ N/A
☐ Maintenance Logs	☐ Readily Available	☐ Up to Date	☒ N/A
Remarks:			
2. **Site-Specific Health and Safety Plan**	☒ Readily Available	☐ Up to Date	☐ N/A
Contingency Plan /Emergency Response Plan	☒ Readily Available	☐ Up to Date	☐ N/A
Remarks:			
3. **O&M and OSHA Training Records**	☐ Readily Available	☐ Up to Date	☒ N/A
Remarks:			
4. **Permits and Service Agreements**			
☐ Air Discharge Permit	☐ Readily Available	☐ Up to Date	☒ N/A
☐ Effluent Discharge	☐ Readily Available	☐ Up to Date	☒ N/A
☐ Waste Disposal, POTW	☐ Readily Available	☐ Up to Date	☒ N/A
☐ Other permits	☐ Readily Available	☐ Up to Date	☒ N/A
Remarks:			
5. **Gas Generation Records**	☐ Readily Available	☐ Up to Date	☒ N/A
Remarks:			
6. **Settlement Monument Records**	☐ Readily Available	☐ Up to Date	☒ N/A
Remarks:			
7. **Groundwater Monitoring Records**	☒ Readily Available	☒ Up to Date	☐ N/A
Remarks:			
8. **Leachate Extraction Records**	☐ Readily Available	☐ Up to Date	☒ N/A
Remarks:			
9. **Discharge Compliance Records**	☐ Readily Available	☐ Up to Date	☒ N/A
☐ Air	☐ Readily Available	☐ Up to Date	☒ N/A
☐ Water (effluent)	☐ Readily Available	☐ Up to Date	☒ N/A
Remarks:			
10. **Daily Access/Security Logs**	☐ Readily Available	☐ Up to Date	☒ N/A
Remarks:			

Appendix A: Five-Year Review Site Inspection Checklist

IV. O&M COSTS	
1. **O&M Organization** ☐ State in-house ☐ PRP in-house ☐ Federal Facility in-house ☒ Other O&M costs not provided.	☐ Contractor for State ☒ Contractor for PRP ☐ Contractor for Federal Facility
2. **O&M Cost Records**	
3. **Unanticipated or Unusually High O&M Costs During Review Period** Describe costs and reasons:	

V. ACCESS AND INSTITUTIONAL CONTROLS ☒ Applicable ☐ N/A			
A. Fencing			
1. **Fencing damaged** Remarks:	☐ Location shown on Site map	☐ Gates secured	☒ N/A
B. Other Access Restrictions			
2. **Signs and other security measures** Remarks:	☐ Location shown on Site map		☒ N/A

Appendix A: Five-Year Review Site Inspection Checklist

C. Institutional Controls (IC)

1. **Implementation and enforcement**

Site conditions imply ICs not properly implemented	☐ Yes	☒ No	☐ N/A
Site conditions imply ICs being fully enforced	☒ Yes	☐ No	☐ N/A

Type of monitoring (e.g., self-reporting, drive-by) Self Reporting
Frequency 1 per year
Responsible party/agency NHDES

Contact	Tom Andrews	Project Manager	2/10/2009	603-271-2910
	(Name)	(Title)	(Date)	(Tel No.)

Reporting is up-to-date	☐ Yes	☐ No	☒ N/A
Reports are verified by the lead agency	☐ Yes	☐ No	☒ N/A
Specific requirements in deed or decision documents have been met	☒ Yes	☐ No	☐ N/A
Violations have been reported	☐ Yes	☐ No	☒ N/A

Other problems or suggestions: ☐ Report attached
NHDES manages the groundwater management permit.

2. Adequacy ☒ ICs are adequate ☐ ICs are inadequate ☐ N/A
Remarks Groundwater Management Zone is the primary institutional control

D. General

1. **Vandalism/trespassing** ☐ Location shown on Site map ☒ No vandalism evident
Remarks:

2. **Land use changes on Site** ☒ N/A
Remarks:

3. **Land use changes off Site** ☒ N/A
Remarks:

VI. GENERAL SITE CONDITIONS

A. Roads ☒ Applicable ☐ N/A

1. **Roads damaged** ☒ Location shown on Site map ☐ Roads Adequate ☐ N/A
Remarks: Good condition

B. **Other Site Conditions**
Remarks:

Appendix A: Five-Year Review Site Inspection Checklist

VII. LANDFILL COVERS ☐ Applicable ☒ N/A
VIII. VERTICAL BARRIER WALLS ☐ Applicable ☒ N/A
IX. GROUNDWATER/SURFACE WATER REMEDIES ☒ Applicable ☐ N/A
A. Groundwater Extraction Wells, Pumps and Pipelines ☐ Applicable ☒ N/A
B. Surface Water Collection Structures, Pumps and Pipelines ☐ Applicable ☒ N/A
C. Treatment System ☐ Applicable ☒ N/A
D. Monitoring Data
1. Monitoring Data ☒ Is routinely submitted on time ☒Is of acceptable quality 2. Monitoring Data Suggests: ☒ Groundwater plume is effectively contained ☒Contaminant concentrations are declining Remarks: need to add arsenic and 1,4 dioxane to sampling and analysis plan, consider sampling surface water.
E. Monitoring Natural Attenuation (MNA)
1. **Monitoring Wells** (MNA remedy) ☒ Properly secured/locked ☒ Functioning ☒Routinely sampled ☒ Good condition ☒ All required wells located ☐Needs maintenance ☐ N/A Remarks:
X. OTHER REMEDIES
If there are remedies applied at the Site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction.
XI. OVERALL OBSERVATIONS
A. Implementation of the Remedy
Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.). Achieve cleanup goals through MNA..

Appendix A: Five-Year Review Site Inspection Checklist

B. Adequacy of O&M
Describe issues and observations related to the implementation and scope of the O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy.

APPENDIX B

Additional Tables, Figures, and Attachments

TABLE 1
Summary of Elevations and Field Screening - Monitoring Wells & Residential Wells
Town Garage / Radio Beacon Site
Londonderry, New Hampshire

Sampling Location	Sampling Date	Ground Surface Elevation (Feet MSL)	Reference Point Elevation (Feet MSL)	Groundwater Elevation (Feet MSL)	Temperature (°C)	Specific Conductance (µs/cm)	Dissolved Oxygen (mg/l)	pH (Standard Units)
Monitoring Wells								
MW-2S	11/26/1996	359.29	361.79	357.60	9.0	2,910	8.3	6.7
	11/20/1997			354.27	11.7	4,160	6.5	5.8
	1/1/1998	Monitoring Well Destroyed						
	11/22/1999	356.35	356.04	351.45	12.2	1,080	3.3	6.1
	12/6/2000			352.00**	9.0**	1,500**	7.8**	5.8**
	11/19/2001			348.72	13.1	2,870	7.7	5.8
	11/15/2002			352.09	13.1	775	3.7	6.0
	11/4/2003			352.20	13.0	560	9.8	6.1
	11/3/2004			349.84	13.8	1,200	3.8	5.6
	11/28/2005			352.51	10.3	1,350	4.9	5.5
MW-2D-2	11/27/1996	††	201.77	337.65	6.8	7,700	5.7	6.7
	11/20/1997			336.20	7.9	5,750	1.5	6.3
	11/10/1998			335.44	8.4	7,590	5.3	6.3
	11/23/1999			335.54	11.7	6,620	1.2	6.5
	11/21/2000			335.93	9.3	6,900	7.8	6.5
	11/19/2001			333.81	10.7	6,730	0.0	6.4
	11/15/2002			334.69	11.4	6,380	0.1	6.4
	11/4/2003			335.83	9.7	7,130	0.0	6.9
	11/4/2004			334.50	10.5	7,220	0.6	6.5
	11/28/2005			336.11	10.3	7,260	0.2	6.4
MW-2D-6	11/27/1996	††	315.77	351.95	6.9	29,100	2.9	6.9
	11/20/1997			345.42	8.2	29,600	3.0	6.5
	11/10/1998			347.87	8.9	37,600	8.4	6.7
	11/23/1999			344.87	12.5	26,200	0.7	6.7
	11/21/2000			349.08	10.4	23,600	2.2	6.8
	11/19/2001			343.97	11.6	22,500	0.0	6.7
	11/15/2002			348.10	13.3	16,500	0.0	6.7
	11/4/2003			348.76	10.2	15,800	0.1	7.2
	11/4/2004			346.78	11.5	15,100	0.7	7.0
	11/29/2005			349.23	12.3	13,900	0.2	7.0
MW-2R Installed 10/30/06	11/13/2006	355.99	355.69	351.99	12.5	13,700	0.5	7.0
	12/11/2006			351.56	8.8	14,700	0.8	6.9
	11/9/2007			352.07	12.9	12,500	0.3	6.8
	11/6/2008			352.19	14.2	11,740	1.0	6.8
MW-3D	11/26/1996	339.72	341.54	334.69	6.9	12,900	0.2	6.9
	11/20/1997			333.65	8.9	12,200	1.9	7.3
	11/9/1998			333.33	8.5	11,800	0.2	7.6
	11/22/1999			334.17	10.1	9,790	0.6	7.6
	11/17/2000			334.47	9.9	9,000	0.5	7.5
	11/19/2001			333.00	10.1	8,550	0.3	7.4
	11/14/2002			333.79	10.0	8,940	†	7.5
	11/5/2003			334.44	9.1	8,300	0.3	7.5
	11/3/2004			333.98	9.7	7,930	0.3	7.3
	11/28/2005			335.08	8.7	7,480	0.6	7.2

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Town Garage / Radio Beacon Site
Londonderry, New Hampshire

Sampling Location	Sampling Date	Ground Surface Elevation (Feet MSL)	Reference Point Elevation (Feet MSL)	Groundwater Elevation (Feet MSL)	Temperature (°C)	Specific Conductance (µs/cm)	Dissolved Oxygen (mg/l)	pH (Standard Units)
MW-4D-2	11/25/1996	384.24	309.74	345.71	6.4	58,600	2.6	7.0
	11/20/1997			343.06	6.1	40,500	2.3	5.9
	11/10/1998			344.44	7.9	35,400	0.0	6.7
	11/23/1999			344.66	12.5	31,400	1.1	6.3
	11/21/2000			345.81	7.4	28,200	4.1	6.7
	11/20/2001			344.16	8.0	28,100	0.8	6.4
	11/15/2002			344.06	11.9	23,700	0.0	6.9
	11/4/2003			346.72	6.2	23,600	0.7	6.7
	11/4/2004			344.19	8.6	21,100	0.7	6.5
	11/29/2005			347.79	10.6	19,900	0.7	6.4
MW-4D-3	11/25/1996	384.24	343.24	372.18	7.5	3,400	2.5	7.0
	11/20/1997			370.26	7.2	19,400	2.1	6.7
	11/10/1998			370.26	7.1	19,000	0.3	7.2
	11/23/1999			370.83	11.8	14,570	0.6	7.3
	11/21/2000			371.18	8.1	12,900	3.3	7.3
	11/20/2001			368.40	9.0	11,900	0.9	7.2
	11/15/2002			369.64	10.9	11,000	0.1	7.2
	11/4/2003			368.67	8.2	11,500	0.3	7.7
	11/4/2004			369.30	9.3	11,300	0.7	7.3
	11/29/2005			371.63	9.9	11,400	0.2	7.3
MW-5S	11/25/1996	383.00	385.00	373.06	7.9	19,100	2.2	7.0
	11/20/1997			370.26	9.4	12,000	4.9	5.2
	11/10/1998			370.44	9.1	18,900	1.4	5.9
	11/23/1999			372.22	13.6	16,500	0.6	6.0
	12/6/2000			372.67**	9.5**	11,000**	1.3**	5.9**
	11/20/2001			369.69	9.7	16,100	0.1	6.0
	11/15/2002			370.15	11.6	14,300	0.4	5.9
	11/4/2003			372.57	10.1	12,000	1.3	6.2
	11/4/2004			371.66	9.4	14,400	0.8	6.2
	11/29/2005			373.90	11.0	13,500	0.6	6.2
MW-5D-4	11/25/1996	382.63	327.53	376.86	6.9	17,700	3.8	7.0
	11/20/1997			373.36	8.1	14,100	2.2	5.9
	11/10/1998			372.88	7.9	18,500	1.2	6.6
	11/23/1999			373.66	12.6	15,370	2.3	6.5
	11/21/2000			374.24	8.6	15,200	5.0	6.5
MW-6D-2	11/26/1996	338.35	241.28	333.00	7.9	20,700	2.9	7.0
	11/20/1997			*	7.7	20,200	2.6	6.3
	11/9/1998			*	8.1	19,100	2.9	7.3
	11/22/1999			331.39	10.0	15,210	0.4	7.2
	11/17/2000			331.64	9.3	12,600	0.6	7.4
	11/19/2001			330.36	9.4	12,000	0.8	7.2
	11/14/2002			330.79	10.1	13,000	†	7.3
	11/5/2003			331.54	8.5	11,200	1.0	7.4
	11/3/2004			330.31	9.5	10,400	0.4	7.4
	11/28/2005			331.66	9.1	8,640	0.0	7.3

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Summary of Elevations and Field Screening - Monitoring Wells & Residential Wells
Town Garage / Radio Beacon Site
Londonderry, New Hampshire

Sampling Location	Sampling Date	Ground Surface Elevation (Feet MSL)	Reference Point Elevation (Feet MSL)	Groundwater Elevation (Feet MSL)	Temperature (°C)	Specific Conductance (µs/cm)	Dissolved Oxygen (mg/l)	pH (Standard Units)
MW-6D-4	11/26/1996	338.35	309.28	*	7.8	11,000	2.9	6.9
	11/20/1997			*	8.1	19,100	2.0	6.8
	11/9/1998			*	7.8	19,800	0.5	7.1
	11/22/1999			*	11.6	11,780	0.4	7.2
	11/17/2000			*	10.0	11,300	0.4	7.3
	11/19/2001			*	10.1	13,200	0.0	7.1
	11/14/2002			*	10.3	12,300	†	7.2
	11/5/2003			*	7.6	7,300	0.3	7.5
	11/3/2004			*	9.9	7,080	0.1	7.2
	11/28/2005			*	9.0	3,530	0.3	7.3
MW-8D	11/27/1996	357.16	359.15	339.69	9.7	24,400	6.5	7.0
	11/20/1997			336.95	10.8	19,700	0.1	7.3
	11/9/1998			337.35	12.0	16,200	0.0	7.5
	11/22/1999			338.23	13.1	14,930	0.6	7.4
	11/17/2000			339.08	12.9	11,800	0.3	7.1
	11/19/2001			336.46	11.8	10,800	0.0	7.5
	11/14/2002			338.53	11.0	9,790	0.1	7.3
	11/4/2003			339.45	11.5	8,400	0.4	7.5
	11/3/2004			338.28	11.5	8,650	0.2	7.5
	11/28/2005			339.45	11.6	8,000	1.5	8.2
Residential Wells								
MW-14D	11/20/1997	-	-	-	2.4	2,930	+	6.3
	11/18/1999	-	-	-	7.9	1,033	+	6.6
MW-15D	11/20/1997	-	-	-	10.7	950	+	7.5
	11/27/1999	-	-	-	11	1,240	+	7.5
MW-16D	11/18/1999	-	-	-	6.9	533	+	6.9
MW-18D	11/20/1997	-	-	-	4.1	1,680	+	6.3
	11/18/1999	-	-	-	6.8	1,944	+	6.6
MW-19D	11/20/1997	-	-	-	3.3	2,510	+	6.0
	11/18/1999	-	-	-	6.8	8,980	+	6.5
	11/16/2001	-	-	-	17.2	3,310	+	6.3
	11/4/2003	-	-	-	8.5	980	+	6.6
	11/28/2005	-	-	-	10.5	340	+	6.6
MW-20D	11/20/1997	-	-	-	3.4	500	+	6.4
	11/18/1999	-	-	-	6.2	446	+	7.3
	11/16/2001	-	-	-	17.4	420	+	7.0
	11/4/2003	-	-	-	8.9	430	+	7.4
	11/28/2005	-	-	-	10.6	490	+	7.5
MW-22D	11/20/1997	-	-	-	3.3	550	+	6.5
	11/22/1999	-	-	-	14.5	545	+	6.9
MW-23D	11/20/1997	-	-	-	1.9	590	+	6.4
	11/18/1999	-	-	-	8.2	660	+	6.7
	11/20/2001	-	-	-	8.3	860	+	6.2
	11/4/2003	-	-	-	9.5	960	+	7.2
	11/28/2005	-	-	-	12.1	560	+	6.8

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Summary of Elevations and Field Screening - Monitoring Wells & Residential Wells
Town Garage / Radio Beacon Site
Londonderry, New Hampshire

Notes:

1. Groundwater levels and water quality field screening parameters were measured by SHA on the dates indicated.

2. Groundwater level measurements in overburden and bedrock monitoring wells were obtained with either a Slope Indicator Company or a QED Environmental Systems electric water level meter. Groundwater level measurements in multi-level monitoring wells were obtained using previously-installed Geokon, Inc. vibrating wire pressure transducers and a Geokon, Inc. GK-401 readout box.

3. Water quality parameters obtained for monitoring wells in November 1996, 1997, and 1998 were measured in an in-line flow cell using an O.I. Analytical Aqua-CheckTM Water Analyzer; in November 1999 were measured in an in-line flow cell using an Orion Model 830 dissolved oxygen meter, an Orion Model 130 conductivity meter, and an Orion Model 260 pH meter; and in November/December 2000, November 2001, November 2002 (pH, temperature, and specific conductance), November 2003, November 2004, and November 2008 were measured using a YSI Model 600XLM multi-parameter water quality meter with in-line flow cell; and, in November 2005, November and December 2006, and November 2007 were measured using a YSI Model 556MPS multi-parameter water quality meter with in-line flow cell. In November 2002 dissolved oxygen was measured using a YSI 85 dissolved oxygen meter, located within a separate flow cell; the flow cell containing the dissolved oxygen probe was connected in series and upstream of the flow cell containing the pH, specific conductance, and temperature probes, as described in U.S. Environmental Protection Agency Region I, Low Stress (low flow) Purging and Sampling Procedure for the Collection of Ground Water Samples from Monitoring Wells, July 30, 1996, Revision 2.

4. Water quality parameters obtained for residential wells in November 1997 were measured using an Extech Oyster pH/conductivity probe, in November 1999 and 2001 using a Cole Parmer pH/Con Series 10 meter, and in November 2003 and 2005 using a Hanna HI 991301 portable pH/EC/TDS/Temperature meter.

5. Groundwater level measurements were referenced to the top of steel casing elevation for the overburden and bedrock monitoring wells and to the pressure transducer elevation in multi-level monitoring wells. Groundwater level measurements in MW-2R were referenced to top of PVC. Elevations are presented in feet above mean sea level (MSL).

6. Parameters reported for monitoring wells represent values obtained after parameter measurements stabilized; and for residential wells, represent values obtained after allowing the water to run for approximately 15 minutes to purge stagnant water from the piping system.

7. "*" indicates that the pressure transducers installed in MW-6D-2 and MW-6D-4 were not operational at the time of measurement.
"†" indicates that the dissolved oxygen probe was not operational at the time of measurement.
"††" indicates that ground surface elevation in the vicinity of monitoring well MW-2D was altered during construction of the Saddleback residential neighborhood in 1997/1998.
"**" indicates measurement from December 6, 2000 when well was resampled because the initial sample collected on November 16, 2000 was analyzed by the laboratory past its holding time.
"-" indicates that water level was not measured in the residential wells.
"+" indicates that dissolved oxygen was not measured in groundwater from these wells.

8. The ground surface and reference elevations indicated for MW-2S are for the replacement well installed on November 18, 1999 by Capital Environmental Drilling, Inc. of Dunbarton, New Hampshire. Prior to the installation of the replacement well, the ground surface and reference elevations for MW-2S were 359.29 feet and 361.79 feet, respectively.

9. Prior to the 2001 sampling round, Amendment No. 1 to the Statement of Work (SOW) was approved by USEPA allowing sampling locations MW-5D-4, MW-12D, MW-14D, MW-15D, MW-16D, MW-18D, and MW-22D to be dropped from the groundwater monitoring program.

10. Prior to the 2006 sampling round, Revised Amendment No. 2 to the SOW was approved by USEPA allowing sampling locations MW-2S, MW-2D-2, MW-2D-6, MW-3D, MW-4D-2, MW-4D-3, MW-5S, MW-6D-2, MW-6D-4, MW-8D, MW-19D, MW-20D, and MW-23D to be dropped from the groundwater monitoring program.

11. Monitoring well MW-2R was installed on October 30, 2006 as a replacement to monitoring well MW-2D-6.

TABLE 2
Summary of VOCs and Chloride Analytical Data - Monitoring Wells
Town Garage / Radio Beacon Site
Londonderry, New Hampshire

Monitoring Well Location	Date	Chloride (mg/l)	1,1-DCA (µg/l)	1,1-DCE (µg/l)	1,1,1-TCA (µg/l)	Other VOCs (µg/l)
Cleanup Levels		**250 mg/l**	**81 µg/l**	**7 µg/l**	**200 µg/l**	
MW-1S	Nov-90	440	BDL	BDL	BDL	
	5/9/1994	257	BDL	BDL	BDL	2.20 - THM
	11/3/1994	NS	BDL	BDL	BDL	4.20 - THM
	4/26/1995	192	BDL	BDL	BDL	2.5 - THM
MW-1D	11/1/1990	NS	BDL	BDL	BDL	
	5/9/1994	833	BDL	BDL	BDL	
	12/6/1994	797	BDL	BDL	BDL	
	4/26/1995	810	BDL	BDL	BDL	
MW-2S	Nov-90	3,410	74	18	790	
	5/11/1994	1,682	59	15	200	
	11/3/1994	1,170	150	29	450	
	4/21/1995	1,211	78	25	200	
	10/12/1995	2,440	150	31	410	14 - MTBE
	5/2/1996	760	30	6.7	79	
	11/26/1996	NS	23	4	59	
	11/20/1997	NS	33	8	81	
Replacement Well installed 11/18/99	11/22/1999	NS	BDL	BDL	4	
MW-2S	12/6/2000	NS	4	1	9	
	11/19/2001	NS	6	2	12	8 - THM
	11/15/2002	NS	BDL	BDL	BDL	
	11/4/2003	NS	BDL	BDL	BDL	5 - THM
	11/3/2004	NS	BDL	BDL	BDL	
	11/28/2005	NS	BDL	BDL	BDL	
MW-2D*	Nov-90	3,960	46	41	BDL	
MW-2D-1	4/20/1995	5,749	100	9.1	7.3	180 - MTBE 24 - Toluene
	10/13/1995	4,090	31	5.2	6.3	110 - MEK 4.8 - THM 6.1 - Toluene 2.2 - Carbon disulfide
	5/1/1996	4,100	69	12	5.3	3.5 - Carbon disulfide 3.3 - THM 130 - MEK 10 - Toluene 5.6 - Chloroethane
MW-2D-2	12/6/1994	5,420	46	4.5	6.9	12 - Toluene 390 - MEK
	4/20/1995	5,484	140	13	BDL	72 - Toluene
	10/13/1995	4,270	160	17	BDL	75 - Toluene 6.7 - Dimethyl sulfide
	5/1/1996	2,800	87	19	BDL	64 - Acetone 8.4 - Carbon disulfide 120 - Toluene
	11/27/1996	NS	20	BDL	BDL	180 - Toluene 600 - MEK

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Monitoring Well Location	Date	Chloride (mg/l)	1,1-DCA (µg/l)	1,1-DCE (µg/l)	1,1,1-TCA (µg/l)	Other VOCs (µg/l)
Cleanup Levels		250 mg/l	81 µg/l	7 µg/l	200 µg/l	
MW-2D-2 (cont.)	11/20/1997	NS	12	9	BDL	82 - Toluene 220 - MEK 10 - 2-Hexanone
	11/10/1998	NS	9	8	BDL	67 - Toluene 60 - MEK
	11/23/1999	NS	5	4	BDL	14 - Toluene 10 - MEK
	11/21/2000	NS	6	4	BDL	10 - Acetone 30 - MEK 11 - Toluene
	11/19/2001	NS	6	4	BDL	20 - Acetone 20 - MEK 14 - Toluene
	11/15/2002	NS	4	3	BDL	20 - Acetone 10 - MEK 13 - Toluene
	11/4/2003	NS	4	3	BDL	10 - Acetone 9 - Toluene
	11/4/2004	NS	6	3	BDL	20 - Acetone 11 - Toluene
	11/28/2005	NS	6	3	BDL	20 - Acetone 13 - Toluene
MW-2D-3	12/6/1994	2,339	7	6.2	2.6	1.20 - Toluene
	4/20/1995	2,458	6.5	5.1	1.7	1.20 - Toluene
	10/13/1995	2,410	6.6	5.5	1.7	1.5 - MTBE
	5/1/1996	2,400	7.8	9.2	BDL	3.3 - MTBE
MW-2D-4	6/3/1994	NS	BDL	BDL	7.6	
	12/6/1994	7,390	11	8	6.4	
	4/20/1995	7,979	12	8	5.5	
	10/12/1995	8,810	14	9.9	5.7	2 - MTBE
	5/1/1996	8,700	22	20	9.9	2.8 - MTBE
MW-2D-5	6/3/1994	36,000	33	17	34	
	12/6/1994	18,980	19	15	23	
	4/20/1995	17,940	34	20	27	
	10/12/1995	17,400	37	25	20	2.4 - MTBE
	5/1/1996	18,800	50	44	30	2.1 - Chloroethane
MW-2D-6	6/3/1994	10,900	100	37	300	
	12/6/1994	12,410	100	48	360	
	4/20/1995	11,530	120	58	280	
	10/12/1995	9,000	120	62	320	
	5/1/1996	11,300	150	86	360	6.9 - Chloroethane
	11/27/1996	NS	110	50	240	
	11/20/1997	NS	100	64	160	1 - Toluene
	11/10/1998	NS	110	58	150	1 - Toluene 7 - Chloroethane
	11/23/1999	NS	86	40	85	8 - Chloroethane
	11/21/2000	NS	120	48	56	13 - Chloroethane

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Londonderry, New Hampshire

Monitoring Well Location	Date	Chloride (mg/l)	1,1-DCA (µg/l)	1,1-DCE (µg/l)	1,1,1-TCA (µg/l)	Other VOCs (µg/l)
Cleanup Levels		**250 mg/l**	**81 µg/l**	**7 µg/l**	**200 µg/l**	
MW-2D-6 (cont.)	11/19/2001	NS	100	48	52	17 - Chloroethane
	11/15/2002	NS	57	28	28	7 - Chloroethane
	11/4/2003	NS	57	28	19	10 - Chloroethane
	11/4/2004	NS	46	18	11	7 - Chloroethane
	11/29/2005	NS	36	18	8	5 - Chloroethane
MW-2R Installed 10/30/06	11/13/2006	NS	33	18	7	5 - Chloroethane
	12/11/2006	NS	36	21	8	6 - Chloroethane
	11/9/2007	NS	21	14	3	
	11/6/2008	NS	17	9	BDL	
MW-3S	Nov-90	42	BDL	BDL	BDL	
	5/17/1994	39	BDL	BDL	BDL	
	11/3/1994	74	6.8	BDL	BDL	
	4/17/1995	29	BDL	BDL	BDL	
	10/11/1995	137	BDL	BDL	BDL	1.1 - Chloroethane 1.7 - THM 2.5 - MTBE
	5/13/1996	20	BDL	BDL	BDL	
MW-3D	Nov-90	580	15	BDL	BDL	
	5/17/1994	4,537	11	5.8	BDL	
	12/1/1994	4,260	11	6.2	BDL	
	4/17/1995	4,425	9.4	5.1	BDL	
	10/11/1995	212	11	5.2	BDL	
	5/13/1996	4,400	12	8.3	BDL	
	11/26/1996	NS	8	4	BDL	
	11/20/1997	NS	8	6	BDL	
	11/9/1998	NS	7	4	BDL	
	11/22/1999	NS	5	3	BDL	
	11/17/2000	NS	6	2	BDL	
	11/19/2001	NS	6	2	BDL	
	11/14/2002	NS	4	2	BDL	
	11/5/2003	NS	4	1	BDL	
	11/3/2004	NS	3	1	BDL	
	11/28/2005	NS	3	1	BDL	
MW-4S	Nov-90	2,880	BDL	BDL	BDL	
	5/11/1994	1,124	4.2	BDL	BDL	1.40 - Chloroethane
	11/3/1994	3,124	6.6	BDL	BDL	
	4/25/1995	2,010	3.6	BDL	BDL	4.10 - MTBE 2.20 - Chloroethane
	10/17/1995	3,300	4.6	BDL	BDL	1.2 - MTBE
	4/24/1996	1,210	2.8	BDL	BDL	2.7 - Chloroethane
MW-4D*	Nov-90	23,500	19	18	25	
MW-4D-1	4/26/1996	3,810	7.7	5.9	3.8	2 - Carbon disulfide 6.2 - THM 43 - MEK 2.1 - Methylene chloride 2.9 - Toluene

TABLE 2
Summary of VOCs and Chloride Analytical Data - Monitoring Wells
Town Garage / Radio Beacon Site
Londonderry, New Hampshire

Monitoring Well Location	Date	Chloride (mg/l)	1,1-DCA (µg/l)	1,1-DCE (µg/l)	1,1,1-TCA (µg/l)	Other VOCs (µg/l)
Cleanup Levels		**250 mg/l**	**81 µg/l**	**7 µg/l**	**200 µg/l**	
MW-4D-2	4/26/1995	24,850	5.1	7.5	4.2	3.50 - THM 9.80 - Toluene
	4/26/1996	22,300	8	11	4.5	2.5 - Carbon disulfide 3.2 - THM 3 - Methylene Chloride 4.5 - Toluene
	11/25/1996	NS	7	7	3	3 - THM 4 - Toluene
	11/20/1997	NS	10	10	2	2 - THM 3 - Toluene
	11/10/1998	NS	9	5	BDL	2 - Toluene
	11/23/1999	NS	9	5	BDL	4 - Toluene 20 - MEK
	11/21/2000	NS	13	6	BDL	20 - Acetone 50 - MEK 4 - Toluene
	11/20/2001	NS	13	8	3	20 - Acetone 2 -THM 40 - MEK 4 - Toluene
	11/15/2002	NS	6	2	BDL	20 - MEK 3 - Toluene
	11/4/2003	NS	9	6	3	20 - Acetone 2 -THM 30 - MEK 4 - Toluene
	11/4/2004	NS	9	5	BDL	20 - MEK 4 - Toluene
	11/29/2005	NS	9	6	2	10 - Acetone 20 - MEK 4 - Toluene
MW-4D-3	6/2/1994	22,000	7.6	6.5	41	3.50 - MTBE
	12/6/1994	19,720	9.2	6.9	43	2.90 - MTBE
	4/26/1995	12,000	9.5	7.5	31	
	10/17/1995	12,900	8.9	3.6	21	2.2 - MTBE
	4/26/1996	13,700	11	5.6	24	2.4 - MTBE 2.7 - Chloroethane
	11/25/1996	NS	9	2	15	
	11/20/1997	NS	10	2	10	
	11/10/1998	NS	7	1	6	
	11/23/1999	NS	4	BDL	3	
	11/21/2000	NS	3	BDL	BDL	
	11/20/2001	NS	3	BDL	BDL	
	11/15/2002	NS	BDL	BDL	BDL	
	11/4/2003	NS	BDL	BDL	BDL	
	11/4/2004	NS	BDL	BDL	BDL	
	11/29/2005	NS	BDL	BDL	BDL	

TABLE 2
Summary of VOCs and Chloride Analytical Data - Monitoring Wells
Town Garage / Radio Beacon Site
Londonderry, New Hampshire

Monitoring Well Location	Date	Chloride (mg/l)	1,1-DCA (µg/l)	1,1-DCE (µg/l)	1,1,1-TCA (µg/l)	Other VOCs (µg/l)
Cleanup Levels		250 mg/l	81 µg/l	7 µg/l	200 µg/l	
MW-5S	Nov-90	3,550	14	21	190	
	5/18/1994	3,640	2.2	13	89	
	11/3/1994	2,040	BDL	14	100	
	4/25/1995	4,072	BDL	9.4	43	
	10/17/1995	3,000	2.1	13	64	1.4 - PCE
	4/24/1996	5,120	2.2	15	81	
	11/25/1996	NS	BDL	9	55	
	11/20/1997	NS	BDL	12	52	
	11/10/1998	NS	BDL	5	27	
	11/23/1999	NS	BDL	4	21	
	12/6/2000	NS	BDL	5	19	7 - MTBE
	11/20/2001	NS	BDL	3	11	10 - MTBE
	11/15/2002	NS	BDL	4	11	5 - MTBE
	11/4/2003	NS	BDL	3	9	
	11/4/2004	NS	BDL	2	5	
	11/29/2005	NS	BDL	1	4	
MW-5D*	Nov-90	1,110	9	10	66	
MW-5D-1	4/25/1996	NS	5	2.4	4.8	96 - Acetone 2.4 - Carbon disulfide 20 - Toluene
MW-5D-2	4/25/1996	1,290	BDL	BDL	7.1	5.2 - Carbon disulfide 5.1 - THM 4.1 - Toluene
MW-5D-3	6/3/1994	1,900	3.1	5.4	15	
	4/25/1996	1,790	BDL	2.6	6.3	
MW-5D-4	6/3/1994	6,900	NS	NS	NS	
	12/6/1994	6,110	BDL	BDL	4.5	
	4/25/1995	5,780	BDL	BDL	BDL	
	10/11/1995	5,760	1	TRACE	2.2	1.6 - MTBE
	4/25/1996	6,030	BDL	BDL	3.7	3.5 - MTBE
	11/25/1996	NS	BDL	BDL	2	
	11/20/1997	NS	BDL	BDL	BDL	
	11/10/1998	NS	BDL	BDL	BDL	
	11/23/1999	NS	BDL	BDL	BDL	
	11/21/2000	NS	BDL	BDL	BDL	10 - MTBE
MW-6S	Nov-90	100	BDL	BDL	BDL	
	5/17/1994	191	BDL	BDL	BDL	
	5/25/1994	174	NS	NS	NS	
	11/3/1994	301	BDL	BDL	BDL	
	4/17/1995	118	BDL	BDL	BDL	
MW-6D*	11/1/1990	NS	13	6	BDL	
MW-6D-1	6/2/1994	NS	6.6	2.5	BDL	3.80 - THM 7.50 - Toluene 340 - MEK 150 - Acetone
	5/9/1996	8,480	16	2.2	BDL	7.8 - Carbon disulfide 40 - MEK 25 - Toluene

TABLE 2
Summary of VOCs and Chloride Analytical Data - Monitoring Wells
Town Garage / Radio Beacon Site
Londonderry, New Hampshire

Monitoring Well Location	Date	Chloride (mg/l)	1,1-DCA (µg/l)	1,1-DCE (µg/l)	1,1,1-TCA (µg/l)	Other VOCs (µg/l)
Cleanup Levels		250 mg/l	81 µg/l	7 µg/l	200 µg/l	
MW-6D-2	6/2/1994	8,800	11	7	BDL	1.50 - Toluene
	12/1/1994	9,050	13	7.1	BDL	
	4/20/1995	8,714	10	6.3	BDL	1.10 - MTBE 1.80 - Toluene
	10/10/1995	9,300	12	6.1	BDL	2.3 - MTBE
	5/9/1996	7,350	11	6.8	BDL	2.6 - Toluene
	11/26/1996	NS	10	5	BDL	
	11/20/1997	NS	12	8	BDL	1 - Toluene
	11/9/1998	NS	10	6	BDL	2 - Toluene
	11/22/1999	NS	9	4	BDL	1 - Toluene
	11/17/2000	NS	11	4	BDL	
	11/19/2001	NS	11	5	BDL	1 - Toluene
	11/14/2002	NS	13	5	BDL	1 - Toluene
	11/5/2003	NS	9	3	BDL	2 - Toluene
	11/3/2004	NS	8	2	BDL	1 - Toluene
	11/28/2005	NS	6	1	BDL	1 - Toluene
MW-6D-3	6/2/1994	2,200	3.2	1.5	BDL	
	12/1/1994	1,860	3.6	1.7	BDL	1.50 - Toluene
	4/20/1995	2,379	3	1.4	BDL	1.50 - Toluene
	10/10/1995	7,850	14	6.3	BDL	2.40 - MTBE
	5/9/1996	1,570	2.6	BDL	BDL	
MW-6D-4	6/2/1994	3,800	5.2	BDL	BDL	2.60 - 1,2 DCA
	12/1/1994	4,590	8.5	3.4	BDL	
	4/20/1995	3,621	5	2.1	BDL	
	10/10/1995	7,410	18	6.6	4.5	1.40 - MTBE
	5/9/1996	2,210	3.5	2.1	BDL	
	11/26/1996	NS	6	3	BDL	1 - Toluene
	11/20/1997	NS	18	9	BDL	
	11/9/1998	NS	16	7	BDL	1 - Toluene
	11/22/1999	NS	9	4	BDL	
	11/17/2000	NS	12	4	BDL	
	11/19/2001	NS	17	6	BDL	
	11/14/2002	NS	16	5	BDL	1 - Toluene
	11/5/2003	NS	7	2	BDL	
	11/3/2004	NS	6	2	BDL	
	11/28/2005	NS	2	BDL	BDL	1 - Toluene
MW-7S	Nov-90	46	BDL	BDL	BDL	
	5/17/1994	95	BDL	BDL	BDL	
	11/3/1994	107	BDL	BDL	BDL	
	4/17/1995	70	BDL	BDL	BDL	
MW-7D	11/1/1990	35	BDL	BDL	BDL	
	5/17/1994	105	BDL	BDL	BDL	
	12/6/1994	103	BDL	BDL	BDL	
	4/17/1995	99	BDL	BDL	BDL	

TABLE 2
Summary of VOCs and Chloride Analytical Data - Monitoring Wells
Town Garage / Radio Beacon Site
Londonderry, New Hampshire

Monitoring Well Location	Date	Chloride (mg/l)	1,1-DCA (µg/l)	1,1-DCE (µg/l)	1,1,1-TCA (µg/l)	Other VOCs (µg/l)
Cleanup Levels		**250 mg/l**	**81 µg/l**	**7 µg/l**	**200 µg/l**	
MW-8S	Nov-90	3,460	BDL	BDL	BDL	
	5/10/1994	597	BDL	BDL	BDL	
	11/3/1994	2,105	2.1	BDL	4.6	
	4/18/1995	895	BDL	BDL	BDL	
	10/16/1995	2,700	BDL	BDL	5.8	
	5/3/1996	865	BDL	BDL	BDL	
MW-8D	Nov-90	9,130	48	28	BDL	
	5/10/1994	1,004	BDL	BDL	2	
	11/3/1994	2,439	2.7	1.3	2.7	
	4/18/1995	1,122	BDL	BDL	1.2	
	10/16/1995	8,700	11	6	2.9	1.8 - MTBE
	5/3/1996	2,140	2.5	BDL	3	
	11/27/1996	NS	7	4	BDL	
	11/20/1997	NS	7	5	BDL	
	11/9/1998	NS	5	3	BDL	
	11/22/1999	NS	3	2	BDL	
	11/17/2000	NS	3	1	BDL	16 - Chloromethane 21 - Vinyl Chloride 20 - Acetone 15 - Carbon Disulfide 46 - Benzene 9 - Toluene 4 - Styrene
	11/19/2001	NS	4	1	BDL	
	11/14/2002	NS	2	1	BDL	
	11/4/2003	NS	3	1	BDL	
	11/3/2004	NS	2	BDL	BDL	
	11/28/2005	NS	BDL	BDL	BDL	
MW-9S	Nov-90	530	BDL	BDL	BDL	
	5/11/1994	499	BDL	BDL	1.6	
	11/3/1994	869	BDL	BDL	12	
	4/18/1995	642	BDL	BDL	1.2	
	10/13/1995	860	BDL	BDL	11	
	5/2/1996	490	BDL	BDL	BDL	
RWGS	6/2/1996	191	BDL	BDL	BDL	
	12/8/1994	347	BDL	BDL	BDL	1.4 - Toluene
	4/26/1995	228	BDL	BDL	BDL	
	10/17/1995	200	BDL	BDL	BDL	
	5/7/1996	130	BDL	BDL	BDL	
RWGD	5/18/1994	148	1.5	BDL	BDL	1.1 - Chloromethane
	12/9/1994	118	2.3	BDL	BDL	
	4/26/1995	162	1.4	BDL	BDL	
	10/17/1995	200	1.8	BDL	BDL	
	5/7/1996	156	BDL	BDL	BDL	

TABLE 2
Summary of VOCs and Chloride Analytical Data - Monitoring Wells
Town Garage / Radio Beacon Site
Londonderry, New Hampshire

Notes:

1. "1,1 DCA" indicates 1,1-dichloroethane.
   "1,1 DCE" indicates 1,1-dichloroethene.
   "1,1,1 TCA" indicates 1,1,1-trichloroethane.
   "MEK" indicates methyl-ethyl-ketone.
   "MTBE" indicates methyl-t-butyl ether.
   "THM" indicates chloroform.
   "BDL" indicates below detection limit.
   "NS" indicates not sampled.

2. Underline indicates that the well was sampled during 2008.

3. Shading indicates exceedance of Site Cleanup Level.

4. "*" indicates that monitoring wells MW-2D, MW-4D, MW-5D, and MW-6D were converted to permanent Solinst multilevel wells in 1992.

5. Cleanup levels: chloride = 250 mg/l; 1,1 DCA = 81 µg/l; 1,1 DCE = 7 µg/l; 1,1,1 TCA = 200 µg/l. Note that exceedances are shaded.

6. Although not shaded in the above table, the November 2000 sample from MW-8D contained two analytes that exceeded MCLs: benzene and vinyl chloride, with MCLs of 5 µg/l and 2 µg/l respectively.

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NOTES:

1) BASE MAP WAS PREPARED BASED ON A COPY OF THE 400 SCALE 2007 TOWN OF LONDONDERRY TAX ASSESSOR'S MAP PRINTED FROM THE TOWN OF LONDONDERRY WEBSITE WWW.LONDONDERRYNH.ORG ON AUGUST 8, 2007 AND SHOULD BE CONSIDERED APPROXIMATE . REFER TO THE LEGAL PROPERTY AND DEEDED EASEMENT DESCRIPTIONS FOR MORE ACCURATE IDENTIFICATION OF GROUNDWATER MANAGEMENT ZONE BOUNDARIES.

2) WELL LOCATIONS ARE BASED ON A PLAN ENTITLED, "PLATE 3, LOCATION OF MONITORING WELLS, RESIDENTIAL WELLS, GEOPHYSICAL SURVEY LINES AND CROSS-SECTIONS"; FROM THE FINAL TECHNICAL REPORT OF FIELD INVESTIGATION, HOLTON CIRCLE REMEDIAL INVESTIGATION, LONDONDERRY, NEW HAMPSHIRE; PREPARED BY METCALF & EDDY, INC., DATED MARCH 1992.

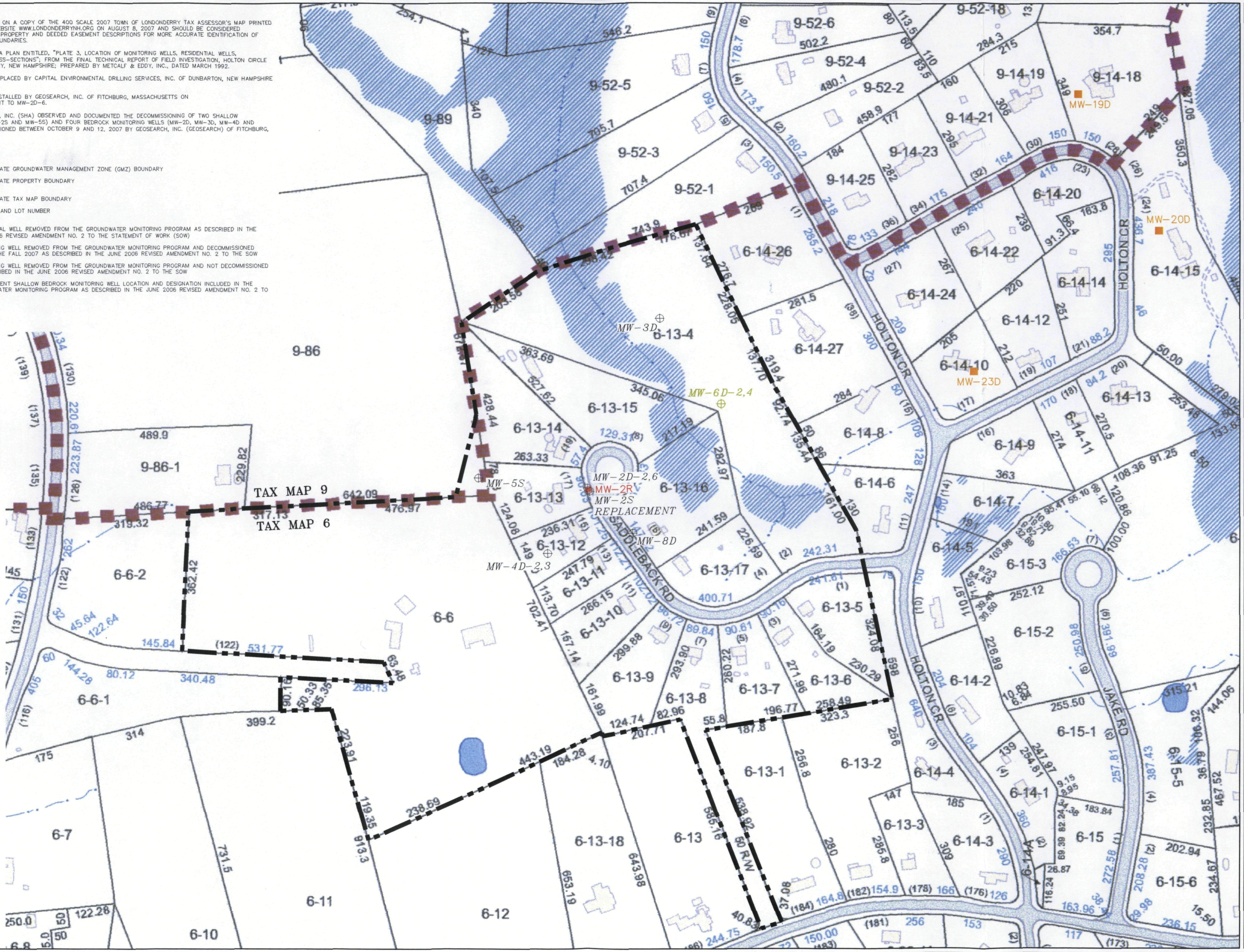
3) MONITORING WELL MW-2S WAS REPLACED BY CAPITAL ENVIRONMENTAL DRILLING SERVICES, INC. OF DUNBARTON, NEW HAMPSHIRE ON NOVEMBER 18, 1999.

5) MONITORING WELL MW-2R WAS INSTALLED BY GEOSEARCH, INC. OF FITCHBURG, MASSACHUSETTS ON OCTOBER 30, 2006 AS A REPLACEMENT TO MW-2D-6.

6) SANBORN, HEAD AND ASSOCIATES, INC. (SHA) OBSERVED AND DOCUMENTED THE DECOMMISSIONING OF TWO SHALLOW OVERBURDEN MONITORING WELLS (MW-2S AND MW-5S) AND FOUR BEDROCK MONITORING WELLS (MW-2D, MW-3D, MW-4D AND MW-8D). THE WELLS WERE DECOMMISSIONED BETWEEN OCTOBER 9 AND 12, 2007 BY GEOSEARCH, INC. (GEOSEARCH) OF FITCHBURG, MASSACHUSETTS.

LEGEND:

(heavy dash-dot line)	APPROXIMATE GROUNDWATER MANAGEMENT ZONE (GMZ) BOUNDARY
(thin line)	APPROXIMATE PROPERTY BOUNDARY
(dotted square line)	APPROXIMATE TAX MAP BOUNDARY
6-2-1	TAX MAP AND LOT NUMBER
■ MW-20D	RESIDENTIAL WELL REMOVED FROM THE GROUNDWATER MONITORING PROGRAM AS DESCRIBED IN THE JUNE 2006 REVISED AMENDMENT NO. 2 TO THE STATEMENT OF WORK (SOW)
⊕ MW-5S	MONITORING WELL REMOVED FROM THE GROUNDWATER MONITORING PROGRAM AND DECOMMISSIONED DURING THE FALL 2007 AS DESCRIBED IN THE JUNE 2006 REVISED AMENDMENT NO. 2 TO THE SOW
⊕ MW-6D-2,4	MONITORING WELL REMOVED FROM THE GROUNDWATER MONITORING PROGRAM AND NOT DECOMMISSIONED AS DESCRIBED IN THE JUNE 2006 REVISED AMENDMENT NO. 2 TO THE SOW
◉ MW-2R	REPLACEMENT SHALLOW BEDROCK MONITORING WELL LOCATION AND DESIGNATION INCLUDED IN THE GROUNDWATER MONITORING PROGRAM AS DESCRIBED IN THE JUNE 2006 REVISED AMENDMENT NO. 2 TO THE SOW



GRAPHICAL SCALE
120' 60' 0 120' 240'

SHA IMPROVING EARTH

NO.	DATE	DESCRIPTION	BY

DRAWN BY: EMW
DESIGNED BY: SRN
CHECKED BY: SRN
REVIEWED BY: PLR
PROJECT MGR: SRN
PIC: PLR
DATE: DEC 08

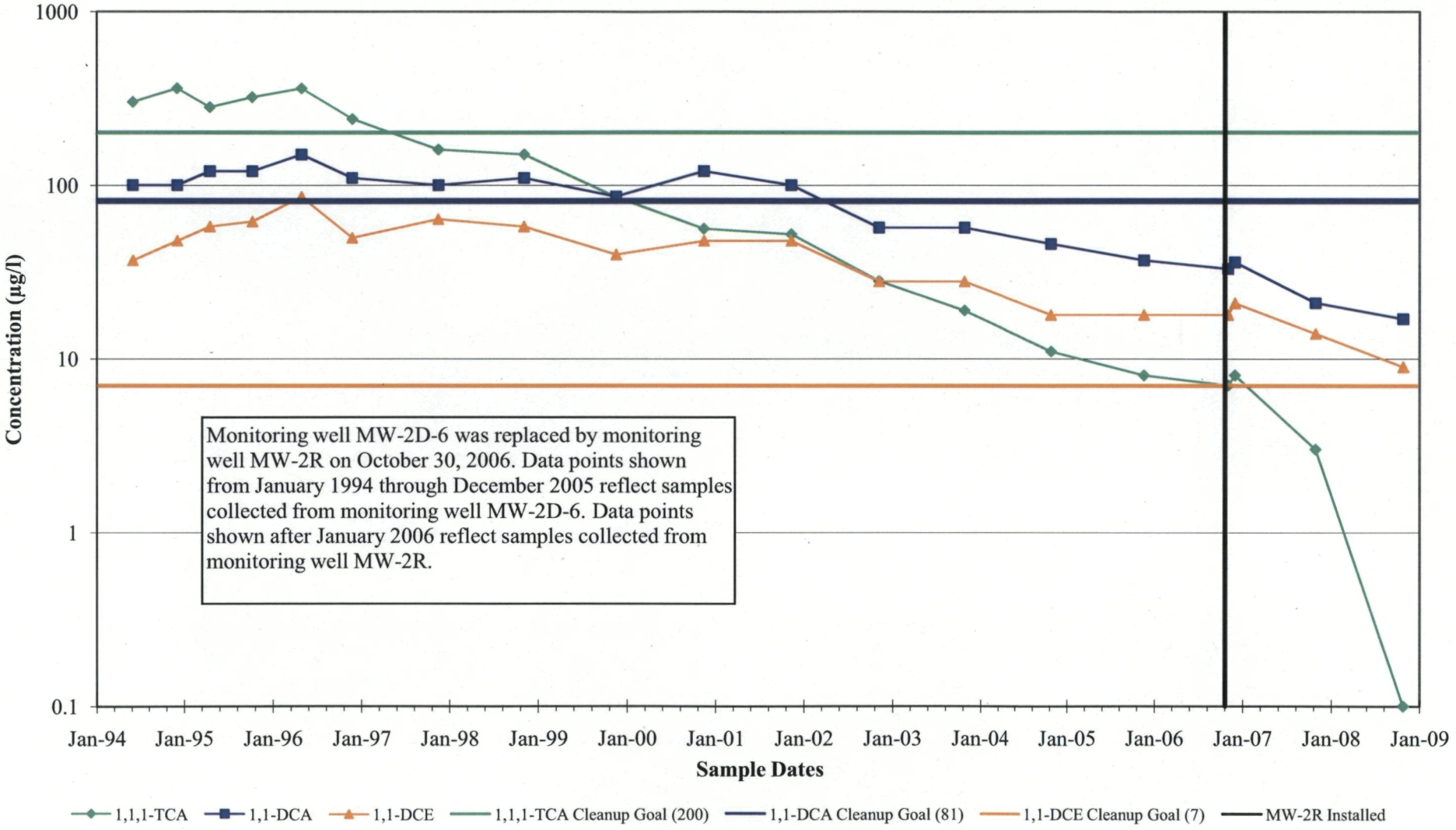
2008 ANNUAL SUMMARY REPORT
TOWN GARAGE/RADIO BEACON SITE
LONDONDERRY, NEW HAMPSHIRE

WELL LOCATION PLAN

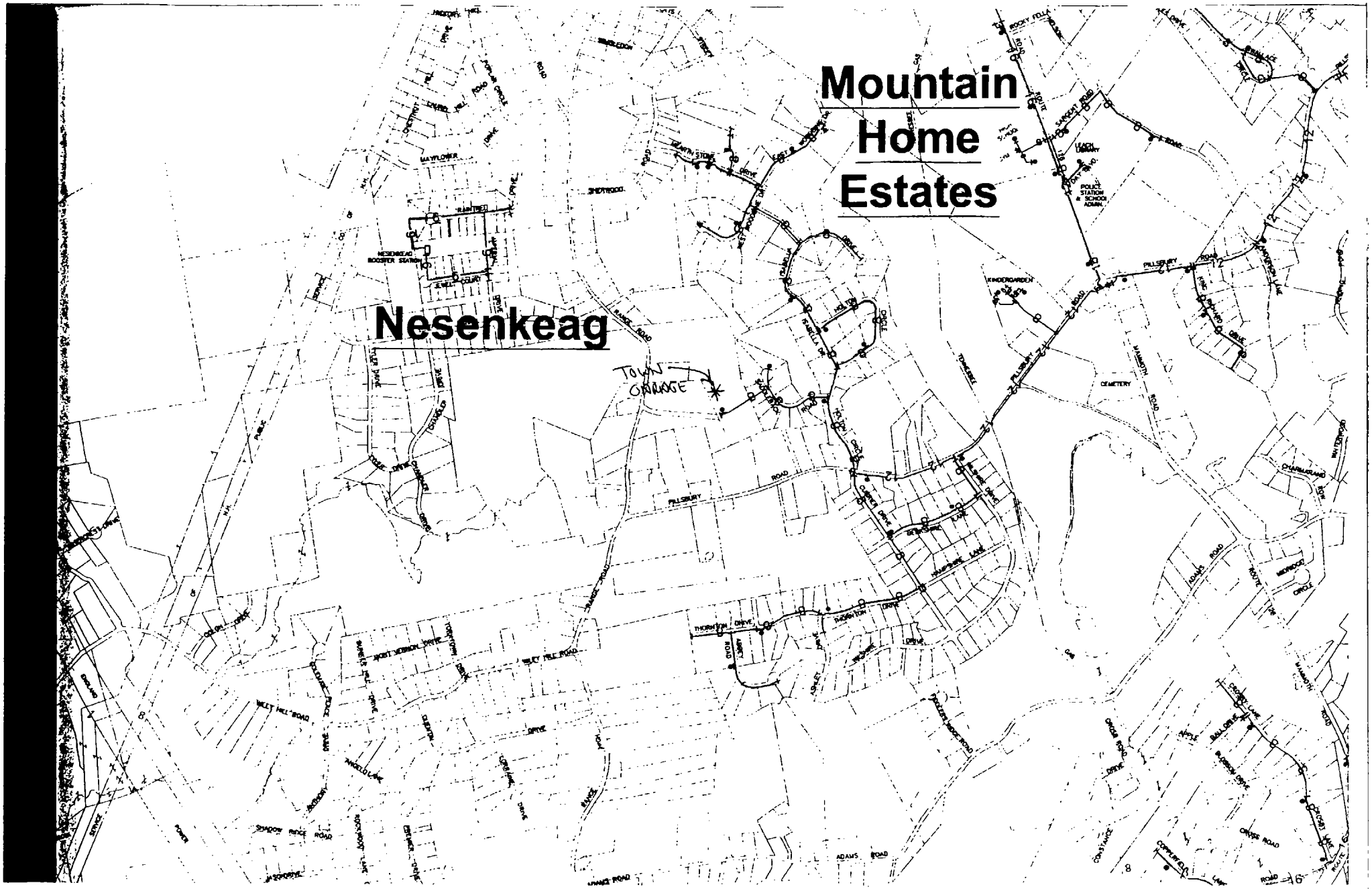
PROJECT NUMBER: 2049.02

FIGURE NUMBER: 1

Figure 2
Concentration vs. Time Plot
MW-2D-6/MW-2R
Town Garage/Radio Beacon Site
Londonderry, New Hampshire



WATERLINE MAP



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TOWN OF LONDONDERRY
LEGAL NOTICE

The Zoning Board of Adjustment for The Town of Londonderry, NH will meet Wednesday December 17, 2008 at 7:00 P.M. in the Moose Hill Council Chambers, 268B Mammoth Road Please note: The Board reserves the right to continue presentations and/or deliberations to January 21, 2009 if the need arises

Minutes 7:00 P.M.

Case No. 12/17/2008-1 7:01 P.M.

The State of New Hampshire Department of Transportation requests a Special Exception to allow an off-premise sign in accordance with the provisions of Section 3 11.6 3.6 61 Nashua Road, 7-125-1, C-I

This agenda was created with reference to the Londonderry Zoning Ordinance dated October, 2008

EPA Starts Five-Year Review of Town Garage/Radio Beacon Superfund Site

The U.S. Environmental Protection Agency (EPA) has begun its third Five-Year Review of the Town Garage/Radio Beacon Superfund Site, Londonderry, NH. Five-Year Reviews are required by law and occur every five years The reviews determine if the cleanup is protective of human health and the environment This Five-Year Review will be completed by March 2009 and the results will be publicly available

The Town Garage/Radio Beacon Superfund Site cleanup plan was to allow the groundwater contamination to clean itself through natural attenuation, along with institutional controls to prevent use of the groundwater for domestic purposes. Residences with affected wells have been connected to a public water supply The cleanup process could take between 7 to 25 years to complete The state has been conducting groundwater monitoring at the site since 1994 Annual monitoring continues

Contaminants at the site included Volatile Organic Compounds (VOCs) in the ground water, including dichloroethylene and dichloroethane All impacted residences have been connected to a public water supply. The potentially responsible party have assumed ground water monitoring and will continue monitoring until cleanup achieved

More information about the cleanup can be found at www epa gov/ne/superfund/sites/towngarage or at the Leach Library, 276 Mammoth Road, Londonderry, NH 03053.

EPA
United States Environmental Protection Agency New England

For more information, contact Byron Mah Toll Free 1-888-372-7341, ext 81249 mah byron@epa gov www epa.gov/ne/superfund/sites/towngarage

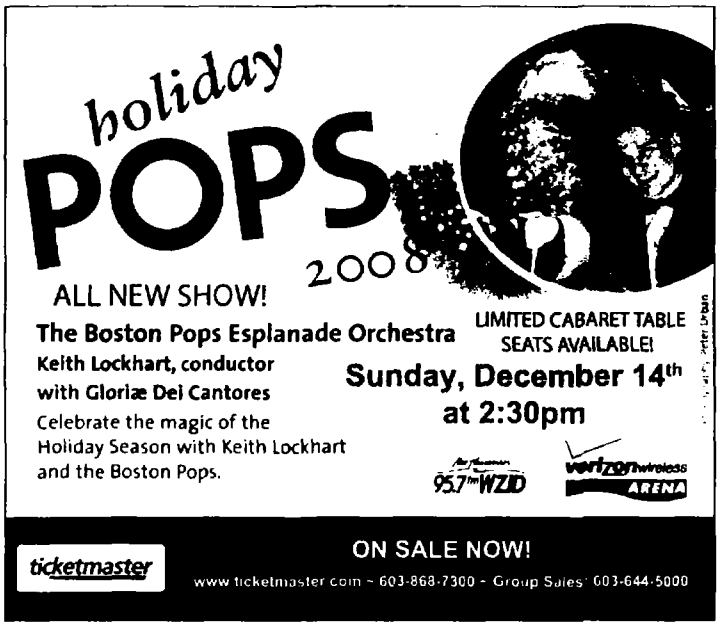

Table I below summarizes the Interim Cleanup Levels for carcinogenic and non-carcinogenic contaminants of concern identified in groundwater.

TABLE I: INTERIM GROUNDWATER CLEANUP LEVELS

Carcinogenic Contaminants of Concern Class( )	Interim Cleanup Level (ug/l)	Basis	Level of Risk
Beryllium (B_2)	4	MCLG	$2.1X10^{-06}$
1,1 Dichloroethene (C)	7	MCLG	$5.0X10^{-05}$
		SUM =	$2.6X10^{-04}$

Non-Carcinogenic Contaminants of Concern	Interim Cleanup Level(ug/l)	Basis	Target Endpoint	Hazard Quotient
Antimony (D)	6	MCLG	blood chemist.	0.41
Barium (D)	2000	MCLG	increase blood pressure	0.77
Beryllium (B_2)	4	MCLG	no adverse effect	0.02
Total Chromium (D)	100	MCLG	no effect observed	0.54
1,1 Dichloroethene (C)	7	MCLG	liver	0.02
1,1,1 Trichloroethane (D)	200	MCLG	liver	0.06
		HAZARD INDEX SUM FOR LIVER =		0.08
		BLOOD =		1.18

- micrograms per liter (ug/l) = parts per billion (ppb)
- The exposure factors used for the calculation of risk levels and hazard quotients are $1.2X10^{-02}$ 1/kg/day and $2.7X10^{-02}$ 1/kg/day for carcinogens and non-carcinogens respectively, based on standard exposure parameters for residential groundwater ingestion (OSWER Directive 9285.6-03.).

Groundwater Quality Field Sampling Summary

SHA IMPROVING EARTH	Project Number: 2049.02	Date:	November 6, 2008
	Project Name: Former Londonderry Town Garage		
	Project Location: Londonderry, New Hampshire		
pH Meter: YSI 600		Project Manager: S. Nerney	
Conductivity Meter: YSI 600		Collector: M. Thomas	
Water Level Meter: MP-30		Weather: Rain, 40s	
Dissolved Oxygen: YSI 600			

Field Measurements

Sampling Location	MW-2R						
Reference Point	PVC						
Reference Point Elevation (feet)	355.69						
Depth to Floating Product (feet)	-						
Depth to Water (feet)	3.50						
Water Table Elevation (feet)	352.19						
Depth to Bottom (feet)	48.5						
pH (standard units)	6.8						
Specific Conductance (µS/cm)	11,740						
Temperature (°C)	14.2						
Dissolved Oxygen (mg/L)	1.0						
Date of Sample	6-Nov						
Sample Time	1140						
Comment Reference Number	1						

Comments

1. Sample collected using low flow sampling techniques.

Scott Nerney
Sanborn, Head & Associates, Inc. (NH)
20 Foundry Street
Concord, NH 03301

ACCREDITED IN ACCORDANCE WITH nelac

Subject: Laboratory Report

Eastern Analytical, Inc. ID:	74438
Client Identification:	Londonderry Town Garage (LTG) / 2049.01 - Nov. 2008
Date Received:	11/6/2008

Dear Mr. Nerney :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. (EAI) certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply throughout all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted
<: "less than" followed by the detection limit
TNR: Testing Not Requested
ND: None Detected, no established detection limit
RL: Reporting Limits
%R: % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

This report package contains the following information: Sample Conditions summary, Analytical Results/Data and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

Analytical Deviation & QA/QC Documentation:
Quality Control Samples associated with this project are included in this report. At a minimum, a Method Blank and Laboratory Control Sample (LCS) are reported. Matrix Spikes and Duplicates are reported where applicable. *Deviations are narrated on the QC pages.*

If you have any questions regarding the results contained within, please feel free to directly contact me, or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) *30 days from the sample receipt date.*

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw

11.17.08

7

Lorraine Olashaw, Lab Director | Date | # of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

Eastern Analytical, Inc. ID#: 74438

Client: **Sanborn, Head & Associates, Inc. (NH)** Client Designation: **Londonderry Town Garage (LTG) | 2049.01 - Nov. 2008**

Temperature upon receipt (°C): 1 **Received on ice or cold packs (Yes/No): Y**

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
74438.01	MW-2R	11/6/08	11/6/08	aqueous		Adheres to Sample Acceptance Policy
74438.02	Trip Blank	11/6/08	10/30/08	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.

All results contained in this report relate only to the above listed samples.

References include:

1) EPA 600/4-79-020, 1983
2) Standard Methods for Examination of Water and Wastewater : Inorganics, 19th Edition, 1995; Microbiology, 20th Edition, 1998
3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
4) Hach Water Analysis Handbook, 2nd edition, 1992

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 74438

Client: **Sanborn, Head & Associates, Inc. (NH)** Client Designation: **Londonderry Town Garage (LTG) | 2049.01 - Nov. 2008**

Sample ID:	MW-2R	Trip Blank
Lab Sample ID:	74438.01	74438.02
Matrix:	aqueous	aqueous
Date Sampled:	11/6/08	10/30/08
Date Received:	11/6/08	11/6/08
Units:	ug/l	ug/l
Date of Analysis:	11/12/08	11/12/08
Analyst:	BAM	BAM
Method:	8260B	8260B
Dilution Factor:	1	1
Dichlorodifluoromethane	< 5	< 5
Chloromethane	< 2	< 2
Vinyl chloride	< 2	< 2
Bromomethane	< 2	< 2
Chloroethane	< 5	< 5
Trichlorofluoromethane	< 5	< 5
Diethyl Ether	< 5	< 5
Acetone	< 10	< 10
1,1-Dichloroethene	**9**	< 1
tert-Butyl Alcohol (TBA)	< 30	< 30
Methylene chloride	< 5	< 5
Carbon disulfide	< 5	< 5
Methyl-t-butyl ether(MTBE)	< 5	< 5
Ethyl-t-butyl ether(ETBE)	< 5	< 5
Isopropyl ether(DIPE)	< 5	< 5
tert-amyl methyl ether(TAME)	< 5	< 5
trans-1,2-Dichloroethene	< 2	< 2
1,1-Dichloroethane	17	< 2
2,2-Dichloropropane	< 2	< 2
cis-1,2-Dichloroethene	< 2	< 2
2-Butanone(MEK)	< 10	< 10
Bromochloromethane	< 2	< 2
Tetrahydrofuran(THF)	< 10	< 10
Chloroform	< 2	< 2
1,1,1-Trichloroethane	< 2	< 2
Carbon tetrachloride	< 2	< 2
1,1-Dichloropropene	< 2	< 2
Benzene	< 1	< 1
1,2-Dichloroethane	< 2	< 2
Trichloroethene	< 2	< 2
1,2-Dichloropropane	< 2	< 2
Dibromomethane	< 2	< 2
Bromodichloromethane	< 0.5	< 0.5
4-Methyl-2-pentanone(MIBK)	< 10	< 10
cis-1,3-Dichloropropene	< 2	< 2
Toluene	< 1	< 1
trans-1,3-Dichloropropene	< 2	< 2
1,1,2-Trichloroethane	< 2	< 2
2-Hexanone	< 10	< 10
Tetrachloroethene	< 2	< 2
1,3-Dichloropropane	< 2	< 2
Dibromochloromethane	< 2	< 2
1,2-Dibromoethane(EDB)	< 2	< 2
Chlorobenzene	< 2	< 2
1,1,1,2-Tetrachloroethane	< 2	< 2
Ethylbenzene	< 1	< 1

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 74438

Client: **Sanborn, Head & Associates, Inc. (NH)** Client Designation: **Londonderry Town Garage (LTG) | 2049.01 - Nov. 2008**

Sample ID:	MW-2R	Trip Blank
Lab Sample ID:	74438.01	74438.02
Matrix:	aqueous	aqueous
Date Sampled:	11/6/08	10/30/08
Date Received:	11/6/08	11/6/08
Units:	ug/l	ug/l
Date of Analysis:	11/12/08	11/12/08
Analyst:	BAM	BAM
Method:	8260B	8260B
Dilution Factor:	1	1
mp-Xylene	< 1	< 1
o-Xylene	< 1	< 1
Styrene	< 1	< 1
Bromoform	< 2	< 2
IsoPropylbenzene	< 1	< 1
Bromobenzene	< 2	< 2
1,1,2,2-Tetrachloroethane	< 2	< 2
1,2,3-Trichloropropane	< 2	< 2
n-Propylbenzene	< 1	< 1
2-Chlorotoluene	< 2	< 2
4-Chlorotoluene	< 2	< 2
1,3,5-Trimethylbenzene	< 1	< 1
tert-Butylbenzene	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1
sec-Butylbenzene	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1
p-Isopropyltoluene	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1
n-Butylbenzene	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5
Naphthalene	< 5	< 5
1,2,3-Trichlorobenzene	< 1	< 1
4-Bromofluorobenzene (surr)	**105 %R**	**103 %R**
1,2-Dichlorobenzene-d4 (surr)	**101 %R**	**101 %R**
Toluene-d8 (surr)	**98 %R**	**97 %R**

LABORATORY REPORT

Eastern Analytical, Inc. ID#:74438 **Batch ID:**

Client: **Sanborn, Head & Associates, Inc.** Client Designation: **Londonderry Town Garage (LTG) | 2049.01 - Nov. 2008**

QC Report

Parameter Name	Blank	LCS	LCS Dup	Units	Date of Analysis	Method
Dichlorodifluoromethane	< 5			ug/l	11/11/08	8260B
Chloromethane	< 2			ug/l	11/11/08	8260B
Vinyl chloride	< 2			ug/l	11/11/08	8260B
Bromomethane	< 2			ug/l	11/11/08	8260B
Chloroethane	< 5			ug/l	11/11/08	8260B
Trichlorofluoromethane	< 5			ug/l	11/11/08	8260B
Diethyl Ether	< 5			ug/l	11/11/08	8260B
Acetone	< 10			ug/l	11/11/08	8260B
1,1-Dichloroethene	< 1	20 (100 %R)	21 (106 %R) (6 RPD)	ug/l	11/11/08	8260B
tert-Butyl Alcohol (TBA)	< 30			ug/l	11/11/08	8260B
Methylene chloride	< 5			ug/l	11/11/08	8260B
Carbon disulfide	< 5			ug/l	11/11/08	8260B
Methyl-t-butyl ether(MTBE)	< 5			ug/l	11/11/08	8260B
Ethyl-t-butyl ether(ETBE)	< 5			ug/l	11/11/08	8260B
Isopropyl ether(DIPE)	< 5			ug/l	11/11/08	8260B
tert-amyl methyl ether(TAME)	< 5			ug/l	11/11/08	8260B
trans-1,2-Dichloroethene	< 2			ug/l	11/11/08	8260B
1,1-Dichloroethane	< 2			ug/l	11/11/08	8260B
2,2-Dichloropropane	< 2			ug/l	11/11/08	8260B
cis-1,2-Dichloroethene	< 2			ug/l	11/11/08	8260B
2-Butanone(MEK)	< 10			ug/l	11/11/08	8260B
Bromochloromethane	< 2			ug/l	11/11/08	8260B
Tetrahydrofuran(THF)	< 10			ug/l	11/11/08	8260B
Chloroform	< 2			ug/l	11/11/08	8260B
1,1,1-Trichloroethane	< 2			ug/l	11/11/08	8260B
Carbon tetrachloride	< 2			ug/l	11/11/08	8260B
1,1-Dichloropropene	< 2			ug/l	11/11/08	8260B
Benzene	< 1	21 (104 %R)	21 (107 %R) (3 RPD)	ug/l	11/11/08	8260B
1,2-Dichloroethane	< 2			ug/l	11/11/08	8260B
Trichloroethene	< 2	24 (118 %R)	24 (121 %R) (3 RPD)	ug/l	11/11/08	8260B
1,2-Dichloropropane	< 2			ug/l	11/11/08	8260B
Dibromomethane	< 2			ug/l	11/11/08	8260B
Bromodichloromethane	< 0.5			ug/l	11/11/08	8260B
4-Methyl-2-pentanone(MIBK)	< 10			ug/l	11/11/08	8260B
cis-1,3-Dichloropropene	< 2			ug/l	11/11/08	8260B
Toluene	< 1	20 (100 %R)	21 (103 %R) (3 RPD)	ug/l	11/11/08	8260B
trans-1,3-Dichloropropene	< 2			ug/l	11/11/08	8260B
1,1,2-Trichloroethane	< 2			ug/l	11/11/08	8260B
2-Hexanone	< 10			ug/l	11/11/08	8260B
Tetrachloroethene	< 2			ug/l	11/11/08	8260B
1,3-Dichloropropane	< 2			ug/l	11/11/08	8260B
Dibromochloromethane	< 2			ug/l	11/11/08	8260B
1,2-Dibromoethane(EDB)	< 2			ug/l	11/11/08	8260B
Chlorobenzene	< 2	22 (108 %R)	22 (108 %R) (0 RPD)	ug/l	11/11/08	8260B

Eastern Analytical, Inc. ID#:74438 **Batch ID:**

Client: **Sanborn, Head & Associates, Inc.** Client Designation: **Londonderry Town Garage (LTG) | 2049.01 - Nov. 2008**

QC Report

Parameter Name	Blank	LCS	LCS Dup	Units	Date of Analysis	Method
1,1,1,2-Tetrachloroethane	< 2			ug/l	11/11/08	8260B
Ethylbenzene	< 1			ug/l	11/11/08	8260B
mp-Xylene	< 1			ug/l	11/11/08	8260B
o-Xylene	< 1			ug/l	11/11/08	8260B
Styrene	< 1			ug/l	11/11/08	8260B
Bromoform	< 2			ug/l	11/11/08	8260B
IsoPropylbenzene	< 1			ug/l	11/11/08	8260B
Bromobenzene	< 2			ug/l	11/11/08	8260B
1,1,2,2-Tetrachloroethane	< 2			ug/l	11/11/08	8260B
1,2,3-Trichloropropane	< 2			ug/l	11/11/08	8260B
n-Propylbenzene	< 1			ug/l	11/11/08	8260B
2-Chlorotoluene	< 2			ug/l	11/11/08	8260B
4-Chlorotoluene	< 2			ug/l	11/11/08	8260B
1,3,5-Trimethylbenzene	< 1			ug/l	11/11/08	8260B
tert-Butylbenzene	< 1			ug/l	11/11/08	8260B
1,2,4-Trimethylbenzene	< 1			ug/l	11/11/08	8260B
sec-Butylbenzene	< 1			ug/l	11/11/08	8260B
1,3-Dichlorobenzene	< 1			ug/l	11/11/08	8260B
p-Isopropyltoluene	< 1			ug/l	11/11/08	8260B
1,4-Dichlorobenzene	< 1			ug/l	11/11/08	8260B
1,2-Dichlorobenzene	< 1			ug/l	11/11/08	8260B
n-Butylbenzene	< 1			ug/l	11/11/08	8260B
1,2-Dibromo-3-chloropropane	< 2			ug/l	11/11/08	8260B
1,3,5-Trichlorobenzene	< 1			ug/l	11/11/08	8260B
1,2,4-Trichlorobenzene	< 1			ug/l	11/11/08	8260B
Hexachlorobutadiene	< 0.5			ug/l	11/11/08	8260B
Naphthalene	< 5			ug/l	11/11/08	8260B
1,2,3-Trichlorobenzene	< 1			ug/l	11/11/08	8260B
4-Bromofluorobenzene (surr)	103 %R	110 %R	108 %R	% Rec	11/11/08	8260B
1,2-Dichlorobenzene-d4 (surr)	103 %R	101 %R	100 %R	% Rec	11/11/08	8260B
Toluene-d8 (surr)	98 %R	98 %R	99 %R	% Rec	11/11/08	8260B

LABORATORY REPORT

Eastern Analytical, Inc. ID#:74438 **Batch ID:**

Client: **Sanborn, Head & Associates, Inc. (NH)** Client Designation: **Londonderry Town Garage (LTG) | 2049.01 - Nov. 2008**

Volatile Organic Compounds QC limits and Narrative Summary

Matrix:	Solid	RPD	Aqueous	RPD
Units:	%	%	%	%
EPA Method	8260B		8260B	
Surrogate Recovery				
4-Bromofluorobenzene	74-121		86-115	
1,2-Dichlorobenzene-D4	80-120		80-120	
Toluene-d8	70-130		70-130	
Matrix Spike Recovery				
1,1-Dichloroethene	59-172	30	61-145	20
Trichloroethene	62-137	30	71-120	20
Benzene	66-142	30	76-127	20
Toluene	59-139	30	76-125	20
Chlorobenzene	60-133	30	75-130	20

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

Sample surrogate recoveries met the above stated criteria.

The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.

There were no exceptions in the analyses, unless noted.

Page 1 of 1

Chain-of-Custody Record

Bold Fields Required. Please Circle Requested Analysis.

74438

Sample I.D.	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/*Composite	VOC: 524.2 / 524.2 BTEX / 524.2 MTBE only	VOC: 8260B (circled) / 624 / VTICs / 1,4 Dioxane / EDB / DBCP	VOC: 8021B / BTEX / HALOS	VOC: 8015B GRO / MEGRO / MAVPH	SVOC: 8270C / 625 / SVTICs / ABN / A / BN / PAH	SVOC: TPH8100 / L1 / L2	SVOC: 8015B DRO / MEDRO / MAEPH	SVOC: 608 PEST/PCB / PEST 8081A / PCB 8082	SVOC: Oil & Grease 1664 / TPH 1664	TCLP: TCLP 1311 / ABN / Metals / VOC / Pest / Herb	Metals: Dissolved Metals (List Below)	Metals: Total Metals (List Below)	Inorganics: TS / TSS / TDS / Spec. Con.	Inorganics: Br / Cl / F / SO_4 / NO_2 / NO_3 / NO_3/NO_2	Inorganics: BOD / CBOD / T. Alk.	Inorganics: TKN / NH_3 / T. Phos.	Inorganics: pH / T. Res. Chlorine	Inorganics: COD / Phenols / TOC	Inorganics: Total Cyanide / Total Sulfide	Inorganics: Reactive Cyanide / Reactive Sulfide / Flashpoint / Ignitability	Micro: T. Coliform / E. Coli / F. Coliform	Micro: Enterococci / Heterotrophic Plate Count	Other	Other	Other	# of Containers	Notes MeOH Vial #
MW-2ØR*	11/4/08 - 1140	GW	G		✓																								2	
TRIP BLANK	10/30/08 - 0945				✓																								2	
Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste water. Preservative: H-HCL; N-HNO_3; S-H_2SO_4; Na-NaOH; M-MEOH				H																										

Project Manager: Scott Norvey

Company: SHA

Address: 20 Foundry St

City: Concord **State:** NH **Zip:** 03301

Phone: (603) 229-1900 **Ext.:**

Fax: (603) 229-1919

E-Mail:

Site Name: Londonderry Town Garage (LTG)

Project #: 2049.01

State: (NH circled) MA ME VT **Other:**

Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other:

Quote #: **PO #:**

Date Needed: Standard

QA/QC Reporting Level: A (B circled) C OR MA MCP Presumptive Certainty

Reporting Options: Prelims: (Yes circled) or No. If Yes: Fax or (PDF circled)

Electronic Options: No Fax (E-Mail circled) (PDF circled) Equis

Temp. 1 °C Ice? (Yes circled) No

Sampler(s): M. Thomas

Relinquished By:	Date:	Time:	Received By:
[signature]	11-6-08	1345	[signature]
[signature]	11-6-08	15:08	[signature]

Metals: 8 RCRA 13 PP Fe, Mn Pb, Cu

Other Metals:

Dissolved Metals Field Filtered? Yes No

Notes: (ie: Special Detection Limits, Billing Info, If Different)

*per Kelly Dubois 11/7/08 (Kw)

Site History:

Suspected Contamination:

Field Readings: